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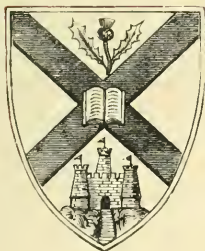
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## PREFACE.

**T**HE EDINBURGH UNIVERSITY CALENDAR for the academic year (1st October to 1st October), published annually in June by authority of the *Senatus Academicus*, contains *Synopses of the Courses of Lectures delivered by the Professors and Lecturers; the Class Prize Lists; the Regulations and Subjects of Examination for Degrees in Arts, Science, Divinity, Law, Medicine, and Music; the Regulations for the Schoolmaster's Diploma; the Regulations for Tropical Diseases; the Annual Graduation Lists; the Bursaries, Prizes, Scholarships, Fellowships, and other Endowments of the University; Benefactions<sup>1</sup> to the University; Bequests and Donations in 1901-1902; a statement of the Annual Income and Expenditure of the University; an abstract of the proceedings of the University Court from 1st May 1901 to 1st May 1902; and a list of the University Societies.*

---

<sup>1</sup> A full list of the chief Benefactors, with the purposes of their benefactions is given at pages 525-540.

*The CALENDAR is Published by JAMES THIN, Edinburgh, and may be had through any Bookseller. (Price 3s. ; by Post 3s. 6d.)*

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UNIVERSITY OF EDINBURGH,

1st June 1902.

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# The Calendar.

1902—OCTOBER, 31 DAYS.

1	W	<p>{ Senatus Offices open throughout the year from 10 to 4, (Saturdays 10 to 1), unless otherwise stated.</p> <p><b>ANNUS ACADEMICUS</b> begins.</p> <p>First day for payment of <b>MATRICULATION</b> fee.</p> <p>Practical Anatomy begins.</p> <p><b>BURSARY EXAM.</b> begins on 25th September. See Time-Table, p. 128.</p> <p><b>PREL. EXAM.</b> begins 26th September. See Time-Tables, pages 128, 284, 397.</p> <p>Last day for Names of Candidates for B.D. to be given in, Certificates examined, and Fees paid.</p> <p>Last day for Names of Candidates for First Year Law Bursaries to be given in.</p>
2	Th	<p>{ Last day for Names of Candidates for Degrees in Arts and Science, and for B.L. Preliminary on M.A. Standard to be given in, Certificates examined, and Fees paid.</p>
3	Fr	
4	Sa	
5	S	
6	M	
7	Tu	<p>{ Examinations for B.D. begin. See Time-Table, page 310.</p> <p>{ Examinations for M.A., and for B.L. Preliminary on M.A. Standard begin. See Time-Table, page 132.</p>
8	W	
9	Th	<p>{ Examinations for Degrees in Science begin. See Time-Table, pages 285 and 286.</p>
10	Fr	
11	Sa	<p>{ <i>Meeting of Senatus Academicus</i> at 2 P.M.; Standing Committees to be appointed.</p>
12	S	
13	M	<p>{ Meeting of University Court at 4 P.M.</p> <p><b>{ CLASSES IN FACULTY OF MUSIC OPEN.</b></p>

1902—OCTOBER—*continued.*

		{ <b>CLASSES IN THE FACULTIES OF ARTS, SCIENCE, DIVINITY, AND MEDICINE OPEN.</b>
14	Tu	{ Library open during Winter Session from 10 to 4: Reading Rooms in Old Buildings, from 10 to 4 and also 8 to 10: Saturdays 10 to 1. Reading Room in New Buildings open from 9 to 5 and 8 to 10: Saturdays 9 to 12.
		{ <b>CLASSES IN FACULTY OF LAW OPEN.</b>
15	W	{ Last day for entering Names for Second and Third Year Bursaries in Law.
16	Th	{ Court of Session sits.
17	Fr	
18	Sa	{ <i>Meeting of Senatus Academicus at 10.15 a.m.</i> { <b>SPECIAL GRADUATION CEREMONIAL at 10.15.</b>
19	S	
20	M	{ Last day for Names of Candidates for Examinations for Degrees in Law to be given in, Certificates examined, and Fees paid.
21	Tu	
22	W	
23	Th	
24	Fr	Examinations for Divinity Bursaries begin.
25	Sa	
26	S	
27	M	{ Examinations for Degrees in Law begin. See Time-Table, page 339.
28	Tu	
29	W	
30	Th	
31	Fr	{ <i>Meeting of General Council at 3 o'clock. Two Assessors to be elected.</i>



# 1902—NOVEMBER, 30 DAYS.

1	Sa	{ <i>Meeting of Senatus Academicus at 2 P.M.; Senatus Budget ; Award of Bursaries.</i>
2	S	
3	M	Oral Examinations in Law.
4	Tu	
5	W	
6	Th	
7	Fr	
8	Sa	
9	S	<b>KING EDWARD VII.</b> born 1841.
10	M	
11	Tu	Martinmas.
12	W	
13	Th	Certificates for Bursaries, &c., granted by Deans.
14	Fr	
15	Sa	Fellowships, Scholarships, Bursaries, paid by Factor.
16	S	
17	M	<i>Meeting of University Court at 4 P.M.</i>
18	Tu	
19	W	
20	Th	
21	Fr	
22	Sa	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	Fr	
29	Sa	{ Registration of Members of General Council for Register of 1903 ends.
30	S	

# 1902—DECEMBER, 31 DAYS.

1	M	{	<p>QUEEN ALEXANDRA born, 1844.  Last day for lodging Theses and for payment of Fees for  D.Sc., D.Phil., and D.Litt.</p>
2	Tu		
3	W		
4	Th		
5	Fr		
6	Sa	{	<p><i>Meeting of Senatus Academicus at 2 P.M. :—</i>  (1) Election of Managers for Royal Infirmary.  (2) Report to Widows' Fund.  (3) Arrangements for Winter and Summer Sessions,  1903-1904.  (4) Nominations for D.D. and LL.D. Degrees.</p>
7	S		
8	M		
9	Tu		
10	W		
11	Th		
12	Fr		
13	Sa		
14	S		
15	M		<i>Meeting of University Court at 4 P.M.</i>
16	Tu		
17	W		
18	Th		
19	Fr	{	<p>Classes meet for last time before Christmas Vacation.  Senatus Offices open from 10 A.M. to 1 P.M. till 6th  January: closed on Christmas, New Year's day, and  Saturdays.</p>
20	Sa		
21	S		
22	M	{	<p>Library, including Reading Rooms at Old Buildings,  open from 10 to 1 till 6th January: closed on Saturdays.  Reading Room, New Buildings, closed for same period.</p>
23	Tu		
24	W		
25	Th		<b>CHRISTMAS DAY.</b>
26	Fr		
27	Sa		
28	S		
29	M		
30	Tu		
31	W		

# 1903—JANUARY, 31 DAYS.

1	Th	
2	Fr	
3	Sa	
4	S	
5	M	
6	Tu	Classes meet after Christmas Vacation.
7	W	
8	Th	
9	Fr	
10	Sa	<i>Meeting of Senatus Academicus at 2 P.M. :—</i> (1) Report of D.D. Committee to be presented. (2) Report of LL.D. Committee to be presented. (3) Annual Report on University Library to be given in.
11	S	
12	M	
13	Tu	<i>Meeting of University Court at 4 P.M.</i>
14	W	
15	Th	
16	Fr	
17	Sa	
18	S	
19	M	
20	Tu	
21	W	
22	Th	ACCESSION OF KING EDWARD VII., 1901.
23	Fr	
24	Sa	
25	S	
26	M	<i>Meeting of University Court for hearing Registration Appeals (if any) at 4 P.M.</i>
27	Tu	
28	W	
29	Th	
30	Fr	
31	Sa	

# 1903—FEBRUARY, 28 DAYS.

1	S	
2	M	Candlemas.
3	Tu	
4	W	
5	Th	
6	Fr	
7	Sa	<i>Meeting of Senatus Academicus at 2 P.M. :—</i> (1) Report of D.D. Committee to be moved. (2) Report of LL.D. Committee to be moved. (3) Resolution to Elect Member of General Assembly.
8	S	
9	M	Holiday in Faculty of Arts.
10	Tu	
11	W	
12	Th	
13	Fr	
14	Sa	
15	S	
16	M	<i>Meeting of University Court at 4 P.M.</i>
17	Tu	
18	W	
19	Th	
20	Fr	
21	Sa	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	Fr	
28	Sa	

# 1903—MARCH, 31 DAYS.

1	S	{	Last day for Names for Preliminary Examinations to be given in and Fees paid.
2	M		
3	Tu		
4	W		
5	Th	{	Last day for Names of Candidates for Degrees in Law to be given in and Fees paid.
6	Fr		
7	Sa		
8	S	{	Last day for Names of Candidates for Degrees in Arts and Science, for Schoolmaster's Diploma, and for B.L. Preliminary on M.A. Standard to be given in and Fees paid. <i>The Regulations as to late entries for Examination in Chemistry, Botany, and Zoology, for Degrees in Arts and Science, are the same as in the Faculty of Medicine.</i>
9	M		
10	Tu		
11	W		
12	Th		
13	Fr	{	Last day for Names of Candidates for the First Professional Examination in Medicine to be given in and Fees paid. <i>Meeting of Senatus Academicus at 2 P.M. :—</i> (1) Member of Assembly to be elected. (2) Acceptances of Honorary Degrees.
14	Sa		
15	S		
16	M		
17	Tu		
		{	KING EDWARD VII. married, 1863.
		{	Last day for Names for Examinations for Degrees in Music to be given in, Certificates examined, and Fees paid.
		{	CLASSES IN FACULTY OF DIVINITY CLOSE.
		{	Last day for Names for Second Professional Examination in Medicine to be given in and Fees paid.
		{	Last day for Names of Candidates for Scholarships in Arts and Science to be intimated. Applications for Grants from Dickson Travelling Fund to be lodged. Examinations for M.A., and for Degrees in Law begin. See Time-Tables, pages 132 and 340. <i>Meeting of University Court at 4 P.M.</i>
		{	Last day for Names for Third Professional Examination in Medicine to be given in and Fees paid.
		{	Last day for Names for Examinations in Divinity to be given in, Certificates examined, and Fees paid.

1903—**MARCH**—*continued.*

18	W	
19	Th	{ Final Science Examinations begin. See Time-Table, page 286.
20	Fr	{ <b>CLASSES IN FACULTIES OF LAW AND MEDICINE CLOSE.</b> Certificates for First Professional and Science Degrees Examinations to be examined from 10 to 3.
21	Sa	{ Certificates for Second Professional Examination to be examined from 10 to 1.
22	S	{ Practical Chemistry Examination and Oral Examinations for Degrees in Arts, Science, and Medicine may begin. Dates, hours, &c., will be posted at University gates.
23	M	{ First Professional Written Examination in Medicine, B.Sc. Examinations, and Science Subjects for M.A. begin. See Time-Tables, pages 133, 285, 406. Oral Examinations in Law. Examinations for Degrees in Music begin. See Time-Table, page 455.
24	Tu	B.D. Examinations begin. See Time-Table, page 310.
25	W	{ Second Professional Examinations begin. See Time-Tables, pages 406 and 413.
26	Th	{ Certificates for Third Professional Examination to be examined from 10 to 1. <b>CLASSES IN THE FACULTIES OF ARTS AND SCIENCE CLOSE.</b> Classes in the Faculties of Law and Medicine which qualify for Graduation in Arts or in Science close on 20th March.
27	Fr	{ Certificates for M.A. Examinations in April to be examined before 4 P.M. Third Professional Examination. See Time-Tables, pages 407, 412. Examinations for M.A. with Honours begin. See Time-Table, page 133. Preliminary Examinations begin. See Time-Table, pages 129, 285, 397.
28	Sa	{ <i>Meeting of Senatus Academicus at 2 P.M.</i> Grants from William Dickson Travelling Fund.
29	S	
30	M	
31	Tu	



# 1903—APRIL, 30 DAYS.

1	W	
2	Th	
3	Fr	
4	Sa	
5	S	
6	M	
7	Tu	
8	W	
9	Th	
10	Fr	<b>GOOD FRIDAY. HOLIDAY.</b> ( <i>Meeting of Senatus Academicus in M'Ewan Hall at 9.30 A.M.</i>
11	Sa	<b>GRADUATION CEREMONIAL IN DIVINITY, LAW, ARTS, AND SCIENCE, IN M'EWAN HALL, AT 10 A.M.</b> <b>COMMEMORATION SERVICE IN ST GILES'S AT 12.</b> Senatus Offices open from 10 to 1 till 1st May: closed on Saturdays. ( Library closed.
12	S	<b>EASTER SUNDAY.</b>
13	M	<i>Meeting of University Court at 4 P.M.</i>
14	Tu	Class of Operative Surgery opens.
15	W	
16	Th	( Names of Candidates for Final Exam. in Medicine to be given in and Fees paid.
17	Fr	
18	Sa	
19	S	
20	M	( Inspection of Library. All books to be returned before this date. Library closed for lending till 27th inst. Reading Room, New Buildings, open from 10 A.M. to 1 P.M. till 27th April: closed on Saturday. <b>EDINBURGH HOLIDAY.</b>
21	Tu	
22	W	( Certificates for Final Exam. to be examined from
23	Th	10 to 1.
24	Fr	
25	Sa	
26	S	
27	M	
28	Tu	
29	W	
30	Th	Last day for lodging Theses for M.D. and for Ch.M.

# 1903—MAY, 31 DAYS.

1	Fr	<b>SUMMER SESSION OPENS.</b> Library and Reading Rooms in Old Buildings open from 10 to 3 during Summer Session: Saturdays 10 to 1. Reading Room in New Buildings open from 9 to 5 and 8 to 10: Saturdays 9 to 12. Clinical Medicine Examination begins.
2	Sa	
3	S	
4	M	
5	Tu	<i>Meeting of University General Council at 3 P.M.</i>
6	W	
7	Th	
8	Fr	
9	Sa	<i>Meeting of Senatus Academicus at 2 P.M.</i>
10	S	
11	M	
12	Tu	
13	W	<b>LAW CLASSES OPEN.</b>
14	Th	
15	Fr	
16	Sa	
17	S	Whitsunday.
18	M	
19	Tu	
20	W	
21	Th	<i>Meeting of University Court at 4 P.M.</i> Fellowships, Scholarships, Bursaries paid by Factor. Victoria Day. General Assembly meets. <b>HOLIDAY.</b>
22	Fr	
23	Sa	
24	S	
25	M	
26	Tu	
27	W	
28	Th	
29	Fr	Princess of Wales born, 1867. Clinical Surgery Exams. begin.
30	Sa	
31	S	

# 1903—JUNE, 30 DAYS.

1	M	
2	Tu	
3	W	Prince of Wales born 1865.
4	Th	
5	Fr	<i>Meeting of Senatus Academicus at 2 P.M.</i>
6	Sa	
7	S	
8	M	
9	Tu	
10	W	
11	Th	
12	Fr	
13	Sa	
14	S	
15	M	<i>Meeting of University Court at 4 P.M.</i> Final Prof. Written Exam. begins. See Time-Table, pages 407, 413.
16	Tu	
17	W	
18	Th	
19	Fr	Last day for Names to be entered and Fees paid for Candidates for Clinical Examinations <i>only</i> for M.D. and for Ch.M.
20	Sa	
21	S	
22	M	
23	Tu	
24	W	Midsummer Day.
25	Th	
26	Fr	
27	Sa	
28	S	
29	M	
30	Tu	

# 1903—JULY, 31 DAYS.

1	W	
2	Th	
3	Fr	<p>( <i>Meeting of Senatus Academicus at 2 P.M.</i>  Last day for Names of Candidates for Examinations for Degrees in Arts and Science, and for First Professional Examination in Medicine to be given in and Fees paid.  <i>The Regulations of the Faculty of Medicine as to late entry fees apply to all entries for Chemistry, Botany, and Zoology.</i>  Clinical Medicine Examination for M.D. <i>only</i> begins at 9.45 A.M.  Examination for Ch.M. begins.</p>
4	Sa	
5	S	
6	M	Prince of Wales married, 1893.
7	Tu	
8	W	
9	Th	
10	Fr	<p>( Last day for Names of Candidates for Second Professional Examination to be given in and Fees paid.</p>
11	Sa	
12	S	
13	M	<i>Meeting of University Court at 4 P.M.</i>
14	Tu	
15	W	<p>( <b>SUMMER SESSION ENDS.</b>  Certificates for First Professional and Arts and Science Examinations to be examined from 10 to 3.  Names of Candidates for Third Professional Examination in Medicine to be given in and Fees paid.</p>
16	Th	<p>( Last day for names to be entered for Graduation, and for payment of Registration Fee.  Second Professional Examination Certificates to be examined from 10 to 1.</p>

1903—JULY—*continued.*

17	Fr	{ Written Examinations for Degrees in Arts (Dept. of Science), for Degrees in Science, and First Professional Examination in Medicine begin. See Time-Tables, pages 134, 286, 406.
18	Sa	
19	S	
20	M	{ Second Professional Examination in Medicine begins. { See Time-Tables, pages 406 and 413.
21	Tu	{ Certificates for Third Professional Examination to be { examined from 10 to 1.
22	W	{ Third Professional Examination. See Time-Table, pages { 407, 413.
23	Th	
24	Fr	{ <i>Meeting of Senatus Academicus</i> at 2 P.M. Candidates for { Degrees to be reported.
25	Sa	{ <b>GRADUATION CEREMONIAL IN MEDICINE, SCIENCE,</b> { <b>&amp;c., AT 10 a.m.</b>
26	S	
27	M	{ Senatus Offices open from 10 to 1 till 1st October: { closed on Saturdays.
28	Tu	
29	W	
30	Th	
31	Fr	

# 1903—AUGUST, 31 DAYS.

		{	<b>LAMMAS.</b> Library and Reading Rooms in Old Buildings open from 10 to 1 till 1st September : closed on Saturdays Reading Room, New Buildings, closed during same period.
1	Sa		
2	S		
3	M		
4	Tu		
5	W		
6	Th		
7	Fr		
8	Sa		
9	S		
10	M		
11	Tu		
12	W		
13	Th		
14	Fr		
15	Sa		
16	S		
17	M		
18	Tu		
19	W		
20	Th		
21	Fr		
22	Sa		
23	S		
24	M		
25	Tu		
26	W		
27	Th		
28	Fr		
29	Sa		
30	S		
31	M		



# 1903—SEPTEMBER, 30 DAYS.

1	Tu	{ Library and Reading Rooms in Old Buildings open from 10 to 3: Saturdays 10 to 1. Reading Room, New Buildings, open from 10 to 1: closed on Saturdays.
2	W	
3	Th	
4	Fr	
5	Sa	
6	S	
7	M	
8	Tu	
9	W	{ Last day for Names of Candidates for Preliminary Examinations to be given in and Fees paid. Last day for entering for University Bursaries in the Faculties of Arts, Science, and Medicine.
10	Th	
11	Fr	
12	Sa	
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	Fr	
19	Sa	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	Fr	
26	Sa	{ Preliminary Examinations may begin. Time-Tables for the Bursary and Preliminary Examinations will be given in the CALENDAR for 1903-1904 and in the Regulations issued separately.
27	S	
28	M	
29	Tu	
30	W	

## EDINBURGH HOLIDAY.

Bursary Examinations may begin.

# Calendar for the Academic Year 1903-1904.

## OCTOBER 1903.

S 4 11 18 25  
M 5 12 19 26  
Tu 6 13 20 27  
W 7 14 21 28  
Th 1 8 15 22 29  
Fr 2 9 16 23 30  
Sa 3 10 17 24 31

## NOVEMBER 1903.

S 1 8 15 22 29  
M 2 9 16 23 30  
Tu 3 10 17 24  
W 4 11 18 25  
Th 5 12 19 26  
Fr 6 13 20 27  
Sa 7 14 21 28

## DECEMBER 1903.

S 6 13 20 27  
M 7 14 21 28  
Tu 1 8 15 22 29  
W 2 9 16 23 30  
Th 3 10 17 24 31  
Fr 4 11 18 25<sup>1</sup>  
Sa 5 12 19 26

## JANUARY 1904.

S 3 10 17 24 31  
M 4 11 18 25  
Tu 5 12 19 26  
W 6 13 20 27  
Th 7 14 21 28  
Fr 1 8 15 22 29  
Sa 2 9 16 23 30

## FEBRUARY 1904.

S 7 14 21 28  
M 1 8<sup>2</sup> 15 22 29  
Tu 2 9 16 23  
W 3 10 17 24  
Th 4 11 18 25  
Fr 5 12 19 26  
Sa 6 13 20 27

## MARCH 1904.

S 6 13 20 27  
M 7 14 21 28  
Tu 1 8 15 22 29  
W 2 9 16 23 30  
Th 3 10 17 24 31  
Fr 4 11 18 25  
Sa 5 12 19 26

## APRIL 1904.

S 3 10 17 24  
M 4 11 18<sup>4</sup> 25  
Tu 5 12 19 26  
W 6 13 20 27  
Th 7 14 21 28  
Fr 1<sup>3</sup> 8 15 22 29  
Sa 2 9 16 23 30

## MAY 1904.

S 1 8 15 22 29  
M 2 9 16 23 30  
Tu 3 10 17 24 31  
W 4 11 18 25  
Th 5 12 19 26  
Fr 6 13 20 27  
Sa 7 14 21 28

## JUNE 1904.

S 5 12 19 26  
M 6 13 20 27  
Tu 7 14 21 28  
W 1 8 15 22 29  
Th 2 9 16 23 30  
Fr 3 10 17 24  
Sa 4 11 18 25

## JULY 1904.

S 3 10 17 24 31  
M 4 11 18 25  
Tu 5 12 19 26  
W 6 13 20 27  
Th 7 14 21 28  
Fr 1 8 15 22 29  
Sa 2 9 16 23 30

## AUGUST 1904.

S 7 14 21 28  
M 1 8 15 22 29  
Tu 2 9 16 23 30  
W 3 10 17 24 31  
Th 4 11 18 25  
Fr 5 12 19 26  
Sa 6 13 20 27

## SEPTEMBER 1904.

S 4 11 18 25  
M 5 12 19<sup>4</sup> 26  
Tu 6 13 20 27  
W 7 14 21 28  
Th 1 8 15 22 29  
Fr 2 9 16 23 30  
Sa 3 10 17 24

<sup>1</sup> Christmas.

<sup>2</sup> Holiday in Faculty of Arts.

<sup>3</sup> Good Friday.

<sup>4</sup> Edinburgh Holiday.

ADDRESSES OF THE PRINCIPAL, PROFESSORS,  
EMERITI AND RESIGNED PROFESSORS, AND  
UNIVERSITY LECTURERS

I.—PRINCIPAL AND PROFESSORS.

Principal Sir William Muir, Dean Park House.

Professor Annandale, 34 Charlotte Square.

„ Bayley Balfour, Inverleith House.

„ Hudson Beare, 10 Regent Terrace.

„ Baldwin Brown, 20 Lansdowne Crescent.

„ Crum Brown, 8 Belgrave Crescent.

„ Hume Brown, 20 Corrennie Gardens.

„ Butcher, 27 Palmerston Place.

„ Chiene, 26 Charlotte Square.

„ Chrystal, 5 Belgrave Crescent.

„ Copeland, Royal Observatory, Blackford Hill.

„ Eggeling, Brunstane House, Joppa, Midlothian.

„ Ewart, Penicuik.

„ Flint, Johnstone Lodge, Craigmillar Park.

„ Fraser, 13 Drumsheugh Gardens.

„ Geikie, Kilmorie, Colinton Road.

„ Sir Ludovic J. Grant, Bart., 4 Belgrave Crescent.

„ Greenfield, 7 Heriot Row.

„ Hardie, 4 Chalmers Crescent.

„ Kennedy, 33 Fountainhall Road.

„ Kirkpatrick, 21 Succoth Place, Murrayfield.

„ Laurie, 22 George Square.

„ Sir Henry D. Littlejohn, 24 Royal Circus.

„ Lodge, 25 Hope Terrace.

„ MacGregor, 6 Chalmers Crescent.

„ Mackinnon, 15 Corrennie Gardens.

„ Mackintosh, 2 Drummond Place.

„ Mounsey, 24 Glencairn Crescent.

„ Nicholson, 3 Belford Park.

Professor Niecks, 24 Dick Place.

- „ Patrick, 8 Strathearn Road.
- „ A. S. Pringle Pattison, 16 Church Hill.
- „ Rankine, 23 Ainslie Place.
- „ Saintsbury, 2 Eton Terrace.
- „ Schäfer, University New Buildings.
- „ Seth, 3 Queen's Crescent.
- „ Simpson, 52 Queen Street.
- „ Hunter Stewart, 9 Learmonth Gardens.
- „ Taylor, 6 Greenhill Park.
- „ Sir Wm. Turner, 6 Eton Terrace.
- „ Wallace, 10 East Claremont Street.
- „ Wyllie, 44 Charlotte Square.

## II.—PROFESSORS EMERITI.

Archibald Hamilton Charteris, D.D., formerly Professor of Biblical Criticism and Biblical Antiquities ; Kingswood, Peebles.

Alexander Campbell Fraser, D.C.L., LL.D., formerly Professor of Logic and Metaphysics ; Gorton, Hawthornden, Midlothian.

Norman Macpherson, LL.D., formerly Professor of Scots Law ; 6 Buckingham Terrace, Edinburgh.

David Masson, LL.D., formerly Professor of Rhetoric and English Literature ; 2 Lockharton Gardens, Edinburgh.

Sir Herbert Stanley Oakeley, D.C.L., LL.D., Mus. D., formerly Professor of Music ; 38 Marine Parade, Dover.

## III.—PROFESSORS RESIGNED.

Theodor Aufrecht, M.A., LL.D., Ph.D., formerly Professor of Sanskrit ; The University, Bonn.

Sir Archibald Geikie, LL.D., formerly Professor of Geology ; 10 Chester Terrace, Regent's Park, London.

Henry Goudy, LL.D., formerly Professor of Civil Law ; now Professor of Civil Law, University, Oxford.

Right Hon. Lord Lister, LL.D., M.D., formerly Professor of Clinical Surgery ; 12 Park Crescent, Portland Place, London, W.

- Æneas James George Mackay, LL.D., Advocate, formerly Professor of History ; 7 Albyn Place, Edinburgh.  
George Walter Prothero, LL.D., Editor of *The Quarterly Review*, formerly Professor of History ; 24 Bedford Square, London, W.C.  
John Philp Wood, LL.D., W.S., formerly Professor of Conveyancing ; 16 Buckingham Terrace, Edinburgh.

IV.—UNIVERSITY LECTURERS.

- Andrew P. Aitken, D.Sc., 38 Garscube Terrace.  
J. H. Ashworth, D.Sc., University.  
Colonel F. Bailey, R.E., 7 Drummond Place.  
Henry Barker, M.A., 18 Bruntsfield Gardens.  
J. Beard, D.Sc., Ph.D., 93 Comely Bank Avenue.  
James Martin Beattie, M.B., C.M., 38 Warrender Park Road.  
George A. Berry, M.B., C.M., 31 Drumsheugh Gardens.  
A. W. Borthwick, B.Sc., Royal Botanic Gardens.  
Archibald Brown Clark, 2 Woodburn Place.  
Thomas S. Clouston, M.D., Tipperlinn House, Morningside Place.  
H. J. Cunningham, M.A., University.  
Andrew Davidson, M.D., 11 Morningside Place.  
Leonard Dobbin, Ph.D., 7 Cobden Road.  
John Downie Falconer, M.A., B.Sc., University.  
William Fream, LL.D., B.Sc., The Vinery, Downton, Salisbury.  
William Murray Gloag, B.A., 6 Heriot Row.  
Rev. Henry Melvill Gwatkin, D.D., University, Cambridge (Gifford Lecturer in Natural Theology).  
Robert P. Hardie, M.A., 13 Palmerston Road.  
David Playfair Heatley, West Mains House, Mayfield.  
David Hepburn, M.D., 11 Glenorchy Terrace.  
William Allan Jamieson, M.D., 35 Charlotte Square.  
Walter Hume Kerr, M.A., B.Sc., Ferniehurst, Juniper Green.  
Cargill G. Knott, M.A., D.Sc., 42 Upper Gray Street.  
Peter M'Bride, M.D., C.M., 16 Chester Street.

Alexander W. Mair, M.A., 47 Castle Street.

Hugh Marshall, D.Sc., 12 Lonsdale Terrace.

James Mill, M.A., 4 Bellevue Terrace.

John Hepburn Millar, B.A., LL.B., 10 Abercromby Place.

Thomas Hugh Milroy, M.D., 57 Inverleith Row.

Thomas Monck Burn Murdoch, M.B., 14 Charlotte Square.

William Peddie, D.Sc., 14 Ramsay Garden.

Charles Sarolea, Ph.D., D.Litt., l'Ermitage, Colinton, Edinburgh.

Otto Schlapp, Ph.D., Tusculum House, Fisherrow, Mussel-  
burgh.

William Cameron Sillar, M.B., B.Sc., 46 George Square.

G. Gregory Smith, M.A., 16 Murrayfield Avenue.

Charles Tweedie, M.A., B.Sc., University.



# University Officers.

Date of Institution.	<b>Chancellor.</b>	Appointed
1859.	RIGHT HON. ARTHUR JAMES BALFOUR, M.P., D.C.L., LL.D. ....	1891

## Vice-Chancellor.

1859.	SIR WILLIAM MUIR, K.C.S.I., D.C.L., LL.D., Ph.D. ....	1885
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## Rector.

1859.

## Principal.

1582.	SIR WILLIAM MUIR, K.C.S.I., D.C.L., LL.D., Ph.D. ....	1885
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## Representative in Parliament.

1868.	SIR JOHN BATTY TUKE, M.D., LL.D. ....	1900
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## University Court.

**President**—THE RECTOR, *Ex officio*.

THE PRINCIPAL .....	<i>Ex officio</i> .	
THE LORD PROVOST of Edinburgh...	<i>Ex officio</i> .	
HON. LORD STORMONTH DAR- LING, LL.D. ....	} Assessor nominated by Chancellor.....	1901
DAVID DUNDAS, K.C. ....		Do. do. Rector.....
W. LANG TODD, M.A. ....	Do. elected by Town Council....	1901
PATRICK HERON WATSON, M.D., LL.D. ....	Do. elected by General Council	1887
JOSEPH BELL, M.D. ....	Do. do. do.	1895
FRANCIS GRANT OGILVIE, M.A., B.Sc. ....	Do. do. do.	1901
J. CAMPBELL LORIMER, LL.B. ....	Do. do. do.	1901
SIR WM. TURNER, K.C.B., M.B., D.C.L., LL.D., Professor of Anatomy	Do. elected by Senatus ...	1889
ALEXANDER CRUM BROWN, M.D., D.Sc., Professor of Chemistry	Do. do. do.	1889
SIMON S. LAURIE, LL.D., Pro- fessor of Education .....	Do. do. do.	1898
JOHN RANKINE, K.C., M.A., LL.D., Professor of Scots Law .....	Do. do. do.	1901

**Secretary**—PROFESSOR TAYLOR, D.D.  
**Factor and Law Agent**—HENRY COOK, W.S.  
**Auditor**—THOMAS GOLDIE DICKSON, C.A.  
**Clerk**—THOMAS GILBERT.  
**Assistant Clerk**—JAMES DOWIE.  
**Secretary's Clerk**—GEORGE CAMPBELL.

## Curators of Patronage.

		Appointed.
PRINCIPAL SIR WILLIAM MUIR	Elected by University Court . . .	1887
THE HON. LORD STORMONTH DARLING.....	Elected by do. . . .	1900
PATRICK HERON WATSON, M.D., LL.D. ....	Elected by do. . . .	1891
JAMES STEEL, Lord Provost.....	Elected by Town Council . . .	1901
LT.-COL. ALEX. FORBES MACKAY..	Elected by do. . . .	1898
TREASURER CRANSTON.....	Elected by do. . . .	1901
SIR ANDREW M'DONALD.....	Elected by do. . . .	1900
Secretary—R. HERBERT JOHNSTON, W.S., 4 Albyn Place.		

## Senatus Academicus.

President—THE PRINCIPAL.

Secretary—Professor Sir LUDOVIC J. GRANT, Bart., B.A.

FACULTY OF ARTS.

Dean—Professor CHRYSTAL, LL.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1760	Rhetoric and English Literature	GEO. SAINTSBURY, M.A., LL.D.	1895	Crown.
1583	Humanity.....	WILLIAM ROSS HARDIE, M.A.	1895	{ Lds. of Ses., Cur., Fac. of Adv., and W.S. Soc. <sup>1</sup>
1583	Greek.....	SAMUEL HENRY BUTCHER, LL.D., Litt.D.	1882	Curators.
1642	Hebrew and Semitic Languages	ARCH. ROBT. STIRLING KENNEDY, B.D., D.D.	1895	Curators.
1862	Sanskrit and Comparative Philology <sup>2</sup>	JULIUS EGGELING, Ph.D.	1875	Crown.
1882	Celtic Languages, Literature, History, and Antiquities <sup>3</sup>	DON. MACKINNON, M.A.	1882	Curators.
1583	Mathematics.....	GEO. CHRYSTAL, LL.D...	1879	Curators.
1583	Natural Philosophy...	JAMES GORDON MACGREGOR, M.A., D.Sc.	1901	Curators.
1583	Logic & Metaphysics.	A. S. PRINGLE PATTISON, M.A., LL.D.	1891	Curators.
1583	Moral Philosophy.....	JAMES SETH, M.A.....	1898	Curators.
1719	History .....	JOHN KIRKPATRICK, LL.B., LL.D.	1881	Fac. of Adv., & Cur.
1893	History .....	RICHARD LODGE, M.A.	1899	University Court.
1901	Ancient History & Palæography (Sir William Fraser Chair)	PETER HUME BROWN, M.A., LL.D.	1901	University Court.
1871	Commercial & Political Economy & Mercantile Law <sup>4</sup>	JOSEPH SHIELD NICHOLSON, M.A., D.Sc.	1880	Cur., & Merch. Co.

<sup>1</sup> The Judges of the Court of Session nominate two Delegates, the Curators two, the Faculty of Advocates one, and the Society of Writers to the Signet one. These Delegates appoint the Professor, who receives his Commission from the Curators.

<sup>2</sup> This Chair was originally endowed by John Muir, LL.D. (Edin.), D.C.L. (Oxon.), of the Bengal Civil Service, and by a Parliamentary vote.

<sup>3</sup> Originally endowed, 1882, with a sum of £14,000, raised by public subscription.

<sup>4</sup> This Chair was endowed in 1871 by the Merchant Company of Edinburgh, and other Governors of George Watson's and Daniel Stewart's Hospitals.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1879	<b>Fine Art</b> <sup>1</sup> .....	GERARD BROWN, M.A.	BALDWIN 1880	Univ. Ct., Pres. R. Scott. Acad.
1876	<b>Theory, History, and Practice of Educa- tion</b> <sup>2</sup>	SIMON LAURIE, LL.D.	SOMERVILLE 1876	Curators.

FACULTY OF SCIENCE.

Dean—Professor GEIKIE, D.C.L., LL.D.

1583	<b>Mathematics</b> .....	GEORGE M.A., LL.D.	CHRYSTAL, 1879	Curators.
1583	<b>Natural Philosophy..</b>	JAMES GORDON MAC- GREGOR, M.A., D.Sc.	1901	Curators.
1786	<b>Astronomy</b> .....	RALPH COPELAND, Ph.D.	1889	Crown.
1713	<b>Chemistry</b> .....	ALEX. CRUM BROWN, M.D., D.Sc.	1869	Curators.
1767	<b>Natural History</b> .....	JAMES COSSAR EWART, M.D.	1882	Curators.
1676	<b>Botany</b> .....	ISAAC BAYLEY BALFOUR, M.D., D.Sc.	1888	Crown.
1705	<b>Anatomy</b> .....	Sir WILLIAM TURNER, K.C.B., M.B., D.C.L., LL.D.	1867	Curators.
1685	<b>Physiology</b> .....	EDW. ALBERT SCHÄFER, F.R.S.	1899	Curators.
1871	<b>Geology</b> <sup>3</sup> .....	JAMES GEIKIE, D.C.L., LL.D.	1882	Crown.
1868	<b>Engineering</b> <sup>4</sup> .....	THOS. HUDSON BEARE, B.A., B.Sc., M.I.C.E.	1901	Crown.
1790	<b>Agriculture &amp; Rural Economy</b> <sup>5</sup>	ROBERT WALLACE .....	1885	Lds. of Sess., Cur. & Univ. Ct.
1898	<b>Public Health</b> <sup>6</sup> .....	CHAS. HUNTER STEWART, M.B., C.M., D.Sc.	1898	Univ. Court.

FACULTY OF DIVINITY.

Dean—Professor PATRICK, D.D.

1583	<b>Divinity</b> .....	ROBERT FLINT, D.D. ....	1876	Curators.
1846	<b>Biblical Criticism &amp; Biblical Antiquities</b>	JOHN PATRICK, D.D. ....	1898	Crown.
1694	<b>Ecclesiastical History</b>	MALCOLM CAMPBELL TAYLOR, D.D.	1877	Crown.
1642	<b>Hebrew and Semitic Languages</b>	ARCHD. ROBT. STIRLING KENNEDY, B.D., D.D.	1895	Curators.

FACULTY OF LAW.

Dean—Professor Sir LUDOVIC J. GRANT, Bart., B.A.

1707	<b>Public Law</b> .....	Sir LUDOVIC GRANT, Bart., B.A.	1890	Crown.
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<sup>1</sup> This Chair was endowed by Mr H. G. and Miss Frances Watson.

<sup>2</sup> This Chair was originally endowed by the Trustees of the late Rev. Dr Andrew Bell, and supplemented from the Educational Endowments Commission.

<sup>3</sup> This Chair was originally endowed by Sir Roderick Impey Murchison, Bart.

<sup>4</sup> This Chair was originally endowed by Sir David Baxter.

<sup>5</sup> The Professor is elected by nine Delegates, three chosen by the Judges of the Court of Session, three by the Curators, and three by the University Court.

<sup>6</sup> This Chair, "The Bruce and John Usher Chair of Public Health," was endowed by legacy of £5000 from the late Alexander Low Bruce, Esq.; donations of £1163 from Mrs A. L. Bruce and other members of the Bruce family; £8000 from John Usher, Esq. of Norton; and £1000 from Messrs William Younger & Co.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1710	Civil Law.....	JAS. MACKINTOSH, B.A.	1893	{ Fac. of Adv., and Cur. <sup>1</sup> Do. <sup>2</sup>
1719	History (Constitutional, etc.)	JOHN KIRKPATRICK, LL.B., LL.D.	1881	
1722	Scots Law.....	JOHN RANKINE, K.C., LL.D.	1888	Do. <sup>1</sup>
1807	Forensic Medicine...	Sir HENRY DUNCAN LITTLEJOHN, M.D., LL.D.	1897	Crown.
1825	Conveyancing <sup>2</sup> .....	JOHN LITTLE MOUNSEY, W.S.	1900	{ Cur., Dep.-Kpr. and W.S. Soc. <sup>3</sup>
1871	Commercial and Political Economy and Mercantile Law	JOSEPH SHIELD NICHOLSON, M.A., D.Sc.	1880	Cur., & Merch. Co.

## FACULTY OF MEDICINE.

Dean—Professor SIMPSON, M.D., D.Sc.

1713	Chemistry.....	ALEX. CRUM BROWN, M.D.	1869	Curators.
1767	Natural History.....	JAMES COSSAR EWART, M.D.	1882	Curators.
1676	Botany.....	BAYLEY BALFOUR, M.D.	1888	Crown.
1705	Anatomy.....	Sir WM. TURNER, K.C.B., M.B.	1867	Curators.
1685	Physiology.....	EDW. ALBERT SCHÄFER, F.R.S.	1899	Curators.
1831	Pathology.....	WILLIAM SMITH GREENFIELD, M.D.	1881	Curators.
1768	Materia Medica.....	THOMAS RICHARD FRASER, M.D.	1877	Curators.
1685	Medicine.....	JOHN WYLLIE, M.D.....	1900	Curators.
1831	Surgery.....	JOHN CHIENE, C.B., M.D.	1882	Curators.
1726	Midwifery.....	ALEX. RUSSELL SIMPSON, M.D.	1870	Curators.
1807	Forensic Medicine.....	Sir HENRY DUNCAN LITTLEJOHN, M.D.	1897	Crown.
1803	Clinical Surgery.....	THOS. ANNANDALE, M.D.	1877	Crown.
1741	Clinical Medicine.....	THOMAS RICHARD FRASER, M.D.; WILLIAM SMITH GREENFIELD, M.D.; and JOHN WYLLIE, M.D.; Diseases of Women — ALEXANDER RUSSELL SIMPSON, M.D.		
1898	Public Health <sup>4</sup> .....	CHARLES HUNTER STEWART, M.B., CM., D.Sc.	1898	Univ. Court.

## FACULTY OF MUSIC.

Dean—Professor NIECKS, Mus. D., The PRINCIPAL, *ex officio*.

Professor KIRKPATRICK, appointed by the Senatus.

1839	Reid Chair of Music..	FRED. NIECKS, Mus. D.	1891	University Court
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## UNIVERSITY LECTURERS.

	Subjects.	Lecturers.		
1892	Rhet. and English Lit.	G. GREGORY SMITH, M.A.	1892	University Court.
1892	Latin .....	JAMES MILL, M.A.....	1896	Do.
1892	Greek .....	ALEX. W. MAIR, M.A....	1899	Do.

<sup>1</sup> For each of these Chairs the Faculty of Advocates send to the Curators a list of two, of whom the Curators must choose one.

<sup>2</sup> Endowed by the Society of Writers to the Signet.

<sup>3</sup> The Election is by—(1) Two Delegates from the Curators; (2) Two from the Society of Writers to the Signet; and (3) The Deputy-Keeper of the Signet.

<sup>4</sup> See footnote 6, page 3.

Date of Institution.	Subjects.	Lecturers.	Appointed.	Patrons.
1892	Mathematics .....	CHARLES TWEEDIE, M.A., B.Sc.	1892	University Court.
1892	Natural Philosophy	WILLIAM PEDDIE, D.Sc.	1892	Do.
1892	Applied Mathematics	CARGILL G. KNOTT, M.A., D.Sc.	1892	Do.
1892	Logic & Metaphysics	ROBERT P. HARDIE, M.A.	1892	Do.
1892	Moral Philosophy.....	HENRY BARKER, M.A.	1898	Do.
1894	French Lang., Lit., and Romance Philology	CHARLES SAROLEA, Ph.D., D.Litt.	1894	Do.
1894	German Lang., Lit., and Teutonic Philology	OTTO SCHLAPP, Ph.D.	1894	Do.
1900	History <sup>1</sup> .....	DAVID PLAYFAIR HEATLEY	1900	Do.
1901	Ancient History <sup>2</sup> .....	H. J. CUNNINGHAM, M.A.	1901	Do.
1901	Economics .....	ARCH. BROWN CLARK, M.A.	1901	Do.
1894	Chemical Theory.....	LEONARD DOBBIN, Ph.D.	1894	Do.
1894	Plant Physiology.....	A. W. BORTHWICK, B.Sc.	1898	Do.
1894	Mineralogy and Cry- stallography	HUGH MARSHALL, D.Sc.	1894	Do.
1894	Petrology .....	JOHN DOWNIE FALCONER, M.A., B.Sc.	1901	Do.
1894	Advanced Physiology }	T. H. MILROY, M.D., B.Sc.	1899	Do.
1894	Physiological Chem- istry			
1895	Geometrical and Me- chanical Drawing	WALTER HUME KERR, M.A., B.Sc.	1895	Do.
1894	Agricultural Chem- istry	A. P. AITKEN, D.Sc.	1894	Do.
1889	Forestry .....	Colonel F. BAILEY, R.E.	1892	Do.
1890	Agricultural Entom- ology	WILLIAM FREEM, LL.D., B.Sc.	1891	Do.
1887	Gifford Lecturer on Natural Theology }	Prof. HENRY MELVILL GWATKIN, M.A., D.D., University, Cambridge	1901	Do.
1889	Gunning Lecturer.....		1899	Do.
1894	International Priv- ate Law	J. H. MILLAR, B.A., LL.B.	1901	Do.
1884	Procedure & Evidence	W. M. GLOAG, B.A.	1901	Do.
1879	Mental Diseases.....	THOS. S. CLOUSTON, M.D.	1879	Do.
1883	Diseases of the Eye....	GEO. A. BERRY, M.B., C.M.	1896	Do.
1885	Clinical Instruction on Diseases of Chil- dren }	T. M. BURN MURDOCH, M.B., and staff of the Royal Hospital for Sick Children.	1889	Do.
1885	Embryology and Ver- tebrate Zoology	JOHN BEARD, D.Sc.	1894	Do.
1894	Regional Anatomy ....	DAVID HEPBURN, M.D.	1894	Do.
1894	Experimental Phar- macology	WILLIAM C. SILLAR, M.B., B.Sc.	1894	Do.
1894	Pathological Bacteri- ology	JAMES MARTIN BEATTIE, M.B., C.M.	1901	Do.
1897	Diseases of the Larynx, Ear, and Nose }	PETER M <sup>c</sup> BRIDE, M.D.	1897	Do.
1898	Diseases of Tropical Climates	ANDW. DAVIDSON, M.D.	1899	Do.
1899	Clinical Instruction on Diseases of the Skin	W. ALLAN JAMIESON, M.D.	1899	Do.
1901	Invertebrate Zoology	J. H. ASHWORTH, D.Sc.	1901	Do.

<sup>1</sup> Mackay Lectures.

<sup>2</sup> Sir William Fraser Lectures.

## UNIVERSITY ASSISTANTS.

## IN THE FACULTY OF ARTS.

Subjects.	Assistants.
Rhetoric and Eng. Liter.....	G. GREGORY SMITH, M.A.
Humanity.....	JAMES MILL, M.A.
Greek.....	ALEXANDER W. MAIR, M.A.
Hebrew and Semitic Languages	RICHARD BELL, B.D.
Mathematics.....	CHARLES TWEEDIE, M.A., B.Sc.
Natural Philosophy.....	WILLIAM PEDDIE, D.Sc.
Do. (Mechanical)...	THOMAS LINDSAY.
Do. under Nichol )	J. H. MACLAGAN-WEDDERBURN.
Foundation	
Logic and Metaphysics.....	R. P. HARDIE, M.A.
Moral Philosophy.....	HENRY BARKER, M.A.
History.....	D. P. HEATLEY.
Political Economy, &c.....	ARCHIBALD B. CLARK, M.A.

## IN THE FACULTY OF SCIENCE.

Geology.....	JOHN D. FALCONER, M.A., B.Sc.
Engineering.....	W. H. KERR, M.A., B.Sc.
Do. Demonstrator	G. H. GULLIVER.

## IN THE FACULTY OF DIVINITY.

Divinity.....	Rev. ALEXANDER HORN, B.D.
Hebrew and Semitic Languages	Rev. RICHARD BELL, B.D.

## IN THE FACULTY OF LAW.

Civil Law.....	J. M. IRVINE, M.A., B.Sc., LL.B.
Scots Law.....	W. M. GLOAG, B.A.
Conveyancing.....	JOHN ALEX. GRANT.
Constitutional Law and History	D. P. HEATLEY.

## IN THE FACULTY OF MEDICINE.

Chemistry.....	LEONARD DOBBIN, Ph.D.; HUGH MARSHALL, D.Sc.; WM. WHITE TAYLOR, M.A., D.Sc.; JAS. KERR, B.Sc.; ALEX. DINGWALL WHITE, B.Sc.
Zoology.....	J. BEARD, D.Sc.; J. H. ASHWORTH, D.Sc.
Botany.....	A. W. BORTHWICK, B.Sc.; and WILLIAM SMITH, M.A.
Anatomy.....	DAVID HEPBURN, M.D.; DAVID WATERSTON, M.B., C.M.; EDWARD B. JAMIESON, M.B., C.M.; HENRY WADE, M.B., C.M.
Physiology.....	T. H. MILROY, M.D., B.Sc.; P. T. HERRING, M.D.; JOHN MALCOLM, M.B.; and SUTHERLAND SIMPSON, B.Sc., M.D.
Pathology.....	J. M. BEATTIE, M.B., and GEORGE LVON, M.B., Ch.B.
Materia Medica.....	WM. C. SILLAR, M.B., C.M., B.Sc., and E. F. BASHFORD, M.B., Ch.B.
Medicine.....	J. GIBSON CATTANACH, M.B., C.M.
Clinical Medicine Tutors...	J. G. CATTANACH, M.B., C.M.; EDWIN MATTHEW, M.B., Ch.B.; GEORGE LVON, M.B., Ch.B.; and G. F. BARBOUR SIMPSON, M.B., for Diseases of Women.
Surgery.....	GEORGE L. CHIENE, M.B., C.M., and W. J. STUART, M.A., M.B., Ch.B.
Midwifery.....	G. F. BARBOUR SIMPSON, M.B.
Forensic Medicine.....	T. W. DRINKWATER, Ph.D.
Public Health.....	J. BUCHANAN YOUNG, M.B., D.Sc.
Clinical Surgery Tutor.....	R. BLACK PURVES, M.B., C.M.



# EXAMINERS.

## FOR PRELIMINARY EXAMINATION.

The Professors of or Lecturers on the several subjects, and the following additional Examiners:—

Subjects.	Examiners.	Appointed.	Patrons.
English.....	OLIVER ELTON, B.A.	1898	University Court.
Latin }.....	F. R. JAMIESON, M.A.	1898	Do.
Greek }.....			
Mathematics.....	J.F.CAMERON, M.A., B.Sc.	1902	Do.
French.....	ALEXANDER CRAN, M.A.	1902	Do.
German.....	G.B.GARDINER, M.A., D.Sc.	1900	Do.
Italian.....			
Dynamics.....	J.F.CAMERON, M.A., B.Sc.	1902	Do.

# FOR DEGREES, &c.

## I.—IN THE FACULTY OF ARTS.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

### 1. LANGUAGE AND LITERATURE.

Subjects.	Examiners.	Appointed.	Patrons.
Latin.....	F. R. JAMIESON, M.A. and }	1898	University Ct.
Greek.....	Prof. E. A. SONNENSCHN }.....		
English.....	OLIVER ELTON, B.A.....	1898	Do.
French.....	ALEXANDER CRAN, M.A.....	1902	Do.
German.....	GEORGE B. GARDINER, M.A.,	1900	Do.
	D.Sc.		
Sanskrit.....	DR RUDOLPH HOERNLE, M.A.	1900	Do.
Hebrew and Semitic }.....	GEORGE MILLIGAN, M.A.,	1901	Do.
Languages.....	B.D.		
Classical Archæology..	ARTHUR H. SMITH, M.A.....	1901	Do.
Celtic.....	GEORGE HENDERSON, M.A.,	1900	Do.
	Ph.D.		

### 2. MENTAL PHILOSOPHY.

Logic and Metaphysics, }	CHAS. M. DOUGLAS, M.A.,	1899	Do.
Moral Philosophy.....	D.Sc.		
Political Economy.....	J. ROBERTON CHRISTIE,	1901	Do.
	LL.B.		
Education.....	STEWART A. ROBERTSON, M.A.	1900	Do.
Philosophy of Law....	WILLIAM CHREE, LL.B.....	1902	Do.

### 3. SCIENCE.

Mathematics.....	J. F. CAMERON, M.A., B.Sc.	1902	Do.
Natural Philosophy, Pass	DAWSON TURNER, B.A., M.D.		
Do. Honours	J. F. CAMERON, M.A., B.Sc.,		
	and :		
	(In <i>Experimental Physics</i> ),		
	DAWSON TURNER, B.A., D.Sc.	1902	Do.
Astronomy.....	J. L. E. DREYER, Ph.D....	1900	Do.
Chemistry.....	JOHN GIBSON, Ph.D.....	1901	Do.
Zoology.....	J. R. AINSWORTH DAVIS,	1899	Do.
	M.A.		

Botany.....	J. B. FARMER, M.A.....	1901	Do.
Geology.....	B. N. PEACH, A.R.S.M., F.R.S.	1900	Do.

### 4. HISTORY AND LAW.

History.....	J. HOSSEL HENDERSON, M.A.,	1902	Do.
	LL.B.		
Archæology and Art }	DAVID J. VALLANCE.....	1901	Do.
(History of).....			
Constitutional Law			
and History.....	WILLIAM CHREE, LL.B.....	1901	Do.
Roman Law.....			
Public Law.....			

**II.—SCIENCE.****1. PURE SCIENCE.**

The Professors of and Lecturers on the several subjects, and the additional Examiners in Mathematics, Natural Philosophy, Zoology, Botany, Chemistry, Astronomy, Anatomy, Physiology, and Geology.

**2. ENGINEERING.**

The Professors of and Lecturers on the several subjects, the additional Examiners in Mathematics, Natural Philosophy, and Chemistry, and in

<b>Engineering</b> .....	W. A. P. TAIT, M.A., C.E.	1901	University Court.
<b>Extra Addl. Exams.</b> .....	Prof. STANFIELD.....	1902	Do.

**3. PUBLIC HEALTH.**

The Professors of and Lecturers on the several subjects, and the following additional Examiners :—

Subjects.	Examiners.	Appointed.	Patrons.
<b>Physics</b> .....	DAWSON TURNER, B.A., M.D.	1902	University Court.
<b>Laboratory Work</b> .....	A. MACFADYEN, M.D., B.Sc.	1901	Do.
<b>Medicine in its bearings</b> } <b>on Public Health</b> .....	J. O. AFFLECK, M.D.....	1900	Do.
<b>Sanitation, Sanitary Law,</b> } <b>and Vital Statistics</b> .....	JOHN C. M'VAIL, M.D...	1901	Do.

**4. AGRICULTURE.**

The Professors of and Lecturers on the several subjects, and the following additional Examiners :—

The additional Examiners in Mathematics, Chemistry, Botany, Natural History, Geology, and Political Economy, and in

<b>Agriculture</b> .....	JAMES S. GORDON B.Sc.	1900	University Court.
<b>Veterinary Hygiene</b> .....	Principal WILLIAMS.....	1902	Do.
<b>Chemistry as applied to</b> } <b>Agriculture</b> .....	JOHN A. MURRAY, B.Sc.	1896	Do.
<b>Political Economy</b> .....	J. ROBERTON CHRISTIE, LL.B.	1900	Do.
<b>Forestry</b> .....	Dr JOHN NISBET.....	1900	Do.
<b>Agricultural Entomology</b>	R. STEWART MAC- DOUGALL, M.A., D Sc.	1899	Do.

**III.—IN THE FACULTY OF DIVINITY.**

The Professors in the Faculty of Divinity, and the following additional Examiners :—

Rev. J. C. LAMBERT, M.A., B.D.....	1901	University Court.
Rev. GEORGE MILLIGAN, M.A., B.D.....	1901	Do.

**IV.—IN THE FACULTY OF LAW.**

The Professors of, and Lecturers on, the several subjects, and the following additional Examiners :—

<b>Scots Law, International</b> } <b>Private Law, Convey-</b> } <b>ancing, and Forensic</b> } <b>Medicine</b> .....	WM. HUNTER, LL.B.....	1901	University Court.
<b>Roman, Public, Interna-</b> } <b>tional, and Constitu-</b> } <b>tional Law, and General</b> } <b>Jurisprudence</b> .....	WILLIAM CHREE, LL.B.	1901	Do.
<b>Political Economy</b> .....	J. ROBERTON CHRISTIE, LL.B.	1900	Do.

**V.—IN THE FACULTY OF MEDICINE.**

The Professors in the Faculty of Medicine, and the following additional Examiners :—

<b>Botany</b> .....	J. BRETLAND FARMER, M.A...	1901	University Court.
<b>Zoology</b> .....	J. R. AINSWORTH DAVIS, M.A.	1899	Do.

Subjects.	Examiners.	Appointed.	Patrons.
Physics .....	DAWSON TURNER, B.A., M.D.	1902	University Court.
Chemistry .....	JOHN GIBSON, Ph.D.	1901	Do.
Anatomy .....	ROBT. HOWDEN, M.A., M.D.	1901	Do.
Physiology .....	D. NOËL PATON, M.D., B.Sc.	1901	Do.
Materia Medica .....	CHAS. O. HAWTHORNE, M.D.	1900	Do.
Pathology .....	WILLIAM RUSSELL, M.D.	1901	Do.
Forensic Medicine .....	JOHN C. M'VAIL, M.D.	1901	Do.
Public Health .....			
Surgery .....	JOHN SHAW M'LAREN, M.B.	1901	Do.
Clinical Surgery .....	C. W. MACGILLIVRAY, M.D.	1900	Do.
	JOHN BARLOW, M.D.	1900	Do.
	C. W. CATHCART, M.B., C.M.	1901	Do.
	JAMES O. AFFLECK, M.D.	1901	Do.
Medicine .....	ALEXANDER JAMES, M.D.	1901	Do.
Clinical Medicine .....	JOHN W. BALLANTYNE, M.D.	1901	Do.
Midwifery .....			

## VI.—IN THE FACULTY OF MUSIC.

The Professor of Music and Sir ALEXANDER C. MACKENZIE, Mus. D.

### FOR SCHOOLMASTER'S DIPLOMA.

The Professor of Education and STEWART A. ROBERTSON, M.A. 1900.

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#### University Librarian.—Vacant.

Assistant Librarians.—ALEXANDER ANDERSON; DAVID CUTHBERTSON; CHAS. MARTIN; WILLIAM WRIGHT; EDMOND MURISSET; GLADSTONE BRUCE; JAMES H. S. GREGORY, *at University New Buildings.*

—o—

Organist.—THOMAS H. COLLINSON, Mus. B.

—o—

### KEEPERS OF MUSEUMS.

Anatomical Museum .....	Professor Sir WM. TURNER, K.C.B.
Do. Assistant Keeper .....	ALEX. M. OSLER.
Museum of Natural History .....	Professor EWART.
—o—	
Clerk of Senatus .....	THOMAS GILBERT.
Assistant Clerks .....	JAMES DOWIE, JOHN STIRTON, THOMAS F. HARLEY.
Clerk of Works .....	ALLAN E. L. CLARK.
Janitor and Mace-Bearer .....	JAMES TWEEDDALE.
Warders .....	JAMES DONALDSON, WM. JAS. MURRAY.
Caretaker, Music Class Room .....	C. W. WELBY.
Caretaker, M'Ewan Hall .....	BRUCE STRUTHERS.

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### GENERAL COUNCIL.

President .....	{ The Right Hon. ARTHUR JAMES BALFOUR, M.P., D.C.L., &c., Chancellor of the University.
Vice-Presidents .....	
Representative in Parliament .....	The Rector, The Principal, The Chancellor's Assessor, The Rector's Assessor.
Convener of Business Committee .....	Sir JOHN BATTY TUBE, M.D., LL.D.
Convener of Finance Committee .....	JOHN A. TRAIL, W.S., LL.D.
Secretary and Registrar .....	DAVID D. BUCHAN, LL.B., S.S.C.
	THOMAS GILBERT.

# Constitution of the University.

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**T**HE University of Edinburgh was originally the "College of Edinburgh" or "The Town's College," founded in 1583 by the Town Council of Edinburgh, under general powers granted by the Charter of King James VI., dated 14th April 1582. No Charter of foundation is extant; but from the first the College possessed the privilege of conferring degrees. This privilege was ratified by the "Act of Confirmation," passed in 1621, which secured to the "College of James VI." (as it had come to be called) all the rights, immunities, and privileges enjoyed by the Universities of Scotland. This ratification was renewed in the Treaty of Union between England and Scotland, and in the Act of Security. Gradually, in Acts of General Assembly, of Town Council, and of Parliament, the "College of James VI." came to be styled "The University of Edinburgh"; but it remained under the control and patronage of the Town Council down to 1858, when, by the Universities Act, all the Universities of Scotland received new and autonomous constitutions.

The University is a Corporation consisting of the Chancellor, Rector, Principal, Professors, Registered Graduates and Alumni, and Matriculated Students; and from 1858 to 1890 its government was vested in the Senatus Academicus (consisting of the Principal and the Professors), subject to the review and control of the University Court.

By the Universities (Scotland) Act 1889, the University Court was constituted a body corporate, to which the whole property belonging to the University at the passing of the Act was transferred, with full power of administration.

The Senatus, as heretofore, regulates the teaching and discipline of the University, subject to the provisions of the Universities Acts of 1858 and 1889.

## CHANCELLOR.

The Chancellor is elected by the General Council for life. Changes in the ordinances and in University arrangements, proposed or approved by the University Court, must receive his

sanction. Degrees are conferred by him, or by the Vice-Chancellor. The Chancellor is President of the General Council, and nominates an Assessor in the University Court. Appointments:—

Right Hon. Lord Brougham, 1859.

Right Hon. John Inglis, D.C.L., LL.D., 1868.

Right Hon. ARTHUR J. BALFOUR, M.P., D.C.L., LL.D., &c., 1891.

### VICE-CHANCELLOR.

The Vice-Chancellor, nominated by the Chancellor, may, in absence of the Chancellor, confer Degrees, but cannot discharge any other of the Chancellor's duties. In the Vice-Chancellor's absence Degrees are conferred by the Principal, or by the senior member of Senatus.

The Vice-Chancellor acts as Returning Officer at Parliamentary Elections. If there be no Vice-Chancellor at the time, the University Court appoints one to act as Returning Officer. Appointments:—

Sir D. Brewster, appointed 1860.		Sir WILLIAM MUIR, K.C.S.I.,
Sir Alexander Grant, Bart., 1868.		D.C.L., &c., 1885.

### RECTOR.

The Rector is elected by the Matriculated Students in the University on such day in October or November as may be fixed by the University Court after consultation with the Senatus, but not later than the second Saturday in November. The term of office is three years. The next election will take place on Saturday 1st November 1902. The Rector is President of, and nominates an Assessor in, the University Court. He may, before he appoints his Assessor, confer with the Students' Representative Council. No Principal or Professor of any Scottish University is eligible. Appointments:—

Rt. Hon. W. E. Gladstone, 1859.	Most Hon. the Marquess of Lothian,
Thomas Carlyle, 1865.	1887.
Rt. Hon. Lord Moncreiff, 1868.	Rt. Hon. George J. Goschen, 1890.
Sir W. Stirling Maxwell, Bt., 1871.	Rt. Hon. J. P. B. Robertson, 1893.
Rt. Hon. Earl of Derby, 1874.	Rt. Hon. Lord Balfour of Burleigh,
Most Hon. the Marquess of Hartington, 1877.	1896.
Rt. Hon. Earl of Rosebery, 1880.	Most Hon. the Marquess of Dufferin and Ava, 1899.
Rt. Hon. Earl of Iddesleigh, 1883.	

## REPRESENTATIVE IN PARLIAMENT.

Under Clauses 27 to 41 of the “Representation of the People (Scotland) Act,” 31 & 32 Vict., cap. 48, the General Councils of the Universities of Edinburgh and St Andrews elect a Member of Parliament for these Universities.

When a poll is demanded, the votes are given by voting papers issued by the Registrar.

The appointments have been—

Sir Lyon, afterwards Lord, Playfair, K.C.B., LL.D., 1868.

Rt. Hon. J. H. A. Macdonald, C.B., Q.C., LL.D., 1885, 1886.

M. T. Stormonth Darling, Q.C., LL.D., 1888.

Rt. Hon. Sir Charles J. Pearson, Q.C., LL.D., 1890, 1892.

Sir William Overend Priestley, K.B., M.D., LL.D., 1896.

Sir JOHN BATTY TUKE, M.D., LL.D., 1900.

The Parliamentary constituency for 1902 is as follows :—

Edinburgh.....9,010

St Andrews.....1,471

Total in 1902.....10,481

## UNIVERSITY COURT.

Under the Universities Act 1858, the Court has power :—

1. To review all decisions of the Senatus, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senatus, and with the sanction of the Chancellor; provided all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the Fees in the several Classes.

5. Upon sufficient cause shewn, and after due investigation, to censure any member of the Senatus, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class: provided no such sentence of censure, suspension, deprivation, etc., shall have effect until approved by Her Majesty in Council.

By Sec. xix. any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.



By the Universities (Scotland) Act 1889, the University Court is a body corporate with perpetual succession and a common seal ; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, besides the powers conferred upon it by the Act of 1858, has power—

- (1.) To administer and manage the whole revenue and property of the University, including funds mortified for bursaries and other purposes, and have all the powers necessary for the purpose.
- (2.) To review any decision of the Senatus appealed against by a member of Senatus, or other member of the University having an interest, and to take into consideration all representations and reports made to it by the Senatus and by the General Council.  
To review, on representation made by any of its members, or by any member of Senatus, any decision which the Senatus may come to under section seven, sub-section one, but the University Court shall not review any decision of the Senatus in a matter of discipline, except upon appeal taken either by a member of Senatus or by a member of the University directly affected.
- (4.) To appoint professors whose chairs are in the patronage of the University ; to appoint examiners and lecturers ; and to grant recognition to the teaching of any college or individual teacher for the purposes of graduation.
- (5.) To define, on application by any member of Senatus, the nature and limits of a professor's duties under his commission.
- (6.) To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or other person employed in teaching or examining, without the necessity of any one not a member of the Court appearing as prosecutor, and in such proceedings to call any member of the University to give evidence, and to require the production of documents, and to institute any inquiries it may deem necessary.
- (7.) To appoint from among members of the University or others, not being members of the Senatus, one third of the members of any committee charged, by ordinance of the Commissioners, with the superintendence of any libraries or museums belonging to the University ; and on representation made by any of its members, or by any member of Senatus, to review any decision which the Senatus, in the exercise of its powers, may come to in respect of the recommendations of such committee.
- (8.) To appoint committees of its own number, of not less than five members, with powers to report on any business entrusted to them by the University Court, or to carry out special instructions ordered by the Court.
- (9.) To elect the representative of the University on the General Medical Council, under the Medical Act 1886.
- (10.) After the expiration of the powers of the Commission to found new professorships, with the approval of the Universities Committee.

The University Court, by Section 21, has power to make



new ordinances, with the approval of His Majesty in Council:

- (1.) With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.
- (2.) Altering or revoking ordinances framed under the Universities Act 1858, or this Act ; and making new ordinances : provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senatus, to the General Council, and to the University Courts of the other Universities.

Meetings of the Court are held for ordinary business on the first Monday after the 11th of each month, except August and September, and on the first Monday after 19th January, if necessary, for hearing Registration Appeals. Other meetings may be called as the Court may direct. Special Meetings may be called by order of the Rector or the Principal, or by the Secretary on a requisition specifying the object, signed by at least three members of the Court.

The University Court holds the patronage of the Chair of Music ; of the new Chair of History ; of the Chair of Public Health ; of the Chair of Ancient History and Palæography ; of the Chair of Fine Art, in conjunction with the President of the Royal Scottish Academy ; and a share in the patronage of the Chair of Agriculture. It also elects three of the seven Curators of Patronage, and appoints the Lecturers and the Additional Examiners for Degrees.

The Court consists of—1. The Rector ; 2. The Principal ; 3. The Lord Provost of Edinburgh for the time being ; 4. An Assessor nominated by the Chancellor ; 5. An Assessor nominated by the Rector ; 6. An Assessor nominated by the Lord Provost, Magistrates, and Town Council of Edinburgh ; 7. Four Assessors elected by the General Council ; 8. Four Assessors elected by the Senatus Academicus ; 9. Representatives of affiliated Colleges, under section 15 (4) of the Act of 1889 (if any).

Seven members constitute a quorum. The Rector and his Assessor continue in office for three years ; but when the Chancellor or the Rector ceases to hold office, his Assessor continues to be a member of the Court until an Assessor is nominated by

the new Chancellor or Rector. The other Assessors hold office for four years; and all Assessors are eligible for re-election. No Principal or Professor of any Scottish University is eligible as Assessor to any other person or body than the Senatus. The Rector, and in his absence the Principal, presides at meetings of the Court, and in the absence of both a chairman is elected by the meeting. The person presiding at any meeting of the Court has a deliberative vote, and also a casting vote in case of equality.

An abstract of the proceedings of the Court in 1901-1902 is given in a subsequent part of the Calendar.

The names of the present Assessors are given on page 1. The names of the Assessors before 1888 will be found in the Historical Appendix to List of University Graduates, published in 1889 (page 105). The Assessors since 1888 will be found in the various Calendars.

#### UNIVERSITIES COMMITTEE OF PRIVY COUNCIL.

The Scottish Universities Committee of the Privy Council consists of the Lord President of the Privy Council, the Secretary for Scotland; the Lord Justice-General, Lord Justice-Clerk, Lord Advocate, and the Chancellor and the Lord Rector of each of the Universities, if members of the Privy Council; one member at least of the Judicial Committee of the Privy Council; and such other member or members of the Privy Council as His Majesty may appoint.

The powers and duties of this Committee may, subject to rules or regulations passed by His Majesty in Council, be exercised and discharged by any three or more of the members, one of whom shall be a member of the Judicial Committee of the Privy Council or a Senator of the College of Justice in Scotland.

#### CURATORS OF PATRONAGE.

By the Universities Act of 1858, the patronage of seventeen Chairs, previously in the gift of the Town Council, was transferred to seven Curators—three nominated by the University Court, and four by the Town Council. The Curators also have a share in the

patronage of the Chairs of Humanity, Agriculture, Civil Law, History (and Constitutional Law), Scots Law, and Conveyancing, formerly in the gift of the Town Council, and of the Chairs of Celtic, Political Economy, and of Education, instituted after the passing of the 1858 Act. The Curators hold office for three years. The names of the present Curators are given on page 2.

## REPRESENTATIVE IN GENERAL MEDICAL COUNCIL.

Under the Medical Act of 1886, the University is entitled to elect a Member of the General Medical Council, who holds office for five years. Professor Sir William Turner was elected by the Senatus in December 1886. Under the Universities Act of 1889, the University Representative is elected by the University Court, by whom Professor Sir William Turner, K.C.B., M.B., D.C.L., LL.D., was elected in 1891, and re-elected in 1896 and 1901.

## PRINCIPAL.

The Principal, formerly elected by the Town Council, now by the Curators, holds office for life. He is the President of the Senatus Academicus ; in absence of the Rector, he presides at the meetings of the University Court ; and in absence of the Chancellor and Rector he presides at the Statutory Meetings of the General Council, and also at the Special Meetings, except for the election of Assessors.

### PRINCIPALS ELECTED SINCE 1586.

1586. Robert Rollock, <i>previously</i>	1716. William Wishart
<i>Regent</i>	1730. William Hamilton
1599. Henry Charteris	1732. James Smith
1620. Patrick Sands	1736. William Wishart, <i>secundus</i>
1622. Robert Boyd	1754. John Gowdie
1623. John Adamson	1762. William Robertson
1653. Robert Leighton	1793. George Husband Baird
1662. William Colvill	1840. John Lee
1675. Andrew Cant	1859. Sir David Brewster
1685. Alexander Monro	1868. Sir Alexander Grant, Bart.
1690. Gilbert Rule	1885. Sir WM. MUIR, K.C.S.I.
1703. William Carstares	

## SENATUS ACADEMICUS.

The Principal and the Professors constitute the Senatus. This body superintends and regulates the teaching and discipline of the University. The Senatus elects four Assessors in the University Court who hold office for four years. Two retire biennially, but may be re-elected ; and in case of a casual vacancy, the person elected to fill it goes out of office when the person whom he succeeded would in the ordinary rotation have retired. The Senatus appoints two-thirds of the members of the Library and the Museums Committees, receives their reports, and, subject to the review of the University Court, confirms, modifies, or rejects such reports. It also elects a representative in the General Assembly of the Church of Scotland ; two Managers of the Royal Infirmary ; two Governors of George Heriot's Trust ; two Governors of Morrison's Academy, Crieff ; two Governors of the Spence Bursary Trust ; one Governor of Dollar Institution ; and one Governor of Stiell's Hospital, Tranent. Degrees in Arts, Science, Divinity, Law, Medicine, and Music are conferred, on the recommendation of the Senatus, by either the Chancellor, the Vice-Chancellor, the Principal, or the senior Professor present. The Principal is President of the Senatus, with a deliberative and also a casting vote ; and, in his absence, the Senior Professor present acts as Chairman, also with a double vote. The Ordinary Meetings of Senatus shall be held on the 11th and 18th October, 1st November, 6th December, 10th January, 7th February, 7th and 28th March, 11th April, 8th May, 5th June, 3rd and 24th July. The Graduation Ceremonials shall be held on 18th October (*special*), 11th April, and 24th July. Extraordinary Meetings may be called by the Principal or by three Professors. One-third of the Senatus constitutes a quorum.

The Secretary of Senatus, among other duties, summons the Meetings, prepares the Minutes, and intimates business assigned to the Principal, the Faculties, the Boards of Studies, &c. He also administers the *Sponsio Academica* to Graduates.

## FACULTIES.

The University now contains six Faculties, as constituted by Ordinance in 1893—viz., Arts, Science, Divinity, Law, Medicine, and Music. Each Faculty is presided over by a Dean, who is elected by the Professors of his Faculty, and who, among other duties, presents to the Chancellor or Vice-Chancellor the Graduands of his Faculty. The names of the present Deans are given on pp. 2, 3, and 4. The Chairs in the various Faculties are here given in chronological order. The Faculties as previously constituted are given in the CALENDAR for 1893-94, and in previous CALENDARS.

## FACULTY OF ARTS.

The Faculty of Arts embraces the Chairs of Humanity (Latin), Greek, Mathematics, Logic and Metaphysics, Moral Philosophy, Natural Philosophy, Hebrew and Semitic Languages, History (three Chairs), Rhetoric and English Literature, Sanskrit and Comparative Philology, Commercial and Political Economy, Education, Fine Art, and Celtic.

## REGENTS AND PROFESSORS IN THE FACULTY OF ARTS SINCE 1583.

*Regents of Philosophy, 1583-1708.*

[The Regents of Philosophy taught in rotation the four classes in the Curriculum of Arts, the "Bajans," the "Semi-Bajans," the "Bachelors," and the "Magistrands," as the Students of the first, second, third, and fourth year were respectively styled. Each Regent therefore taught every subject in the Curriculum—the Regent of Humanity being subordinate to the Regent of Philosophy, and being employed as a tutor in Classics for Unmatriculated Students. In 1708 the system was changed, and separate Professors for Latin, Greek, Logic and Metaphysics, Moral Philosophy and Natural Philosophy, were substituted for the Regents. A Professorship of Mathematics had previously existed.]

- 1583. Robt. Rollock, *first Regent*
- 1583. Duncan Nairn
- 1585. Charles Lumisdail
- 1586. Adam Colt
- 1586. Alexander Scrimgeour

- 1587. Philip Heslop
- 1588. Charles Fermeor Fairholm
- 1589. Henry Charteris
- 1589. Patrick Sands
- 1594. George Robertson
- 1597. William Craig
- 1597. John Adamson
- 1598. James Knox
- 1598. Robert Scott
- 1601. Andrew Young
- 1603. James Reid
- 1604. David Munro
- 1606. Blase Colt
- 1607. James Fairley
- 1608. William King
- 1611. Andrew Stevenson
- 1625. Samuel Rutherford
- 1625. Robert Ranken
- 1626. Thomas Crawford
- 1626. John Brown
- 1631. Alexander Hepburn

- 1636. James Wyseman
- 1638. James Wright
- 1638. Robert Young
- 1639. Duncan Forrester
- 1644. William Tweedie
- 1644. James Pillans
- 1647. Andrew Suttie
- 1653. John Wishart
- 1665. George Sinclair
- 1666. John Wood
- 1667. William Paterson
- 1679. Gilbert M'Murdoch
- 1679. Andrew Massie
- 1680. Alexander Cockburn
- 1682. Robert Lidderdail
- 1684. Herbert Kennedy
- 1686. Thomas Burnet
- 1689. Alexander Cunningham
- 1690. William Law
- 1695. John Row
- 1695. William Scott
- 1701. Charles Areskine
- 1703. Robert Stewart
- 1707. Colin Drummond

*Regents of Humanity, 1597-1708.*

- 1597. John Ray
- 1606. Blase Colt
- 1611. Oliver Colt
- 1611. Robert Burnet
- Andrew Stevenson
- 1623. Samuel Rutherford
- 1626. Thomas Craufurd
- 1630. John Armour
- 1633. Alexander Gibson
- 1636. James Wyseman
- 1638. Robert Young
- 1644. James Pillans
- 1653. John Wishart
- 1656. William Forbes
- 1656. James M'Gowan
- 1658. Hugh Smith
- 1663. William Cumming
- 1665. Andrew Ross
- 1665. Thomas Bell
- 1676. Gilbert MacMurdo
- 1679. Alexander Cunningham
- 1689. John Drummond

*Professors of Mathematics.*

- 1620. Andrew Young
- 1640. Thomas Craufurd
- 1674. James Gregory
- 1683. David Gregory
- 1692. James Gregory
- 1725. Colin M'Laurin
- 1747. Matthew Stewart
- 1775. Dugald Stewart
- 1785. Adam Ferguson
- 1785. John Playfair
- 1805. John Leslie
- 1819. William Wallace
- 1838. Philip Kelland
- 1879. GEORGE CHRYSAL

*Professors of Humanity.*

- 1708. Laurence Dundas
- 1728. Adam Watt
- 1734. John Kerr
- 1741. George Stuart
- 1775. John Hill
- 1806. Alexander Christison
- 1820. James Pillans
- 1863. William Young Sellar
- 1891. Harry Chester Goodhart
- 1895. WILLIAM ROSS HARDIE

*Professors of Greek.*

- 1708. William Scott, *one of the Regents.*
- 1729. William Scott, *secundus*
- 1730. Colin Drummond
- 1738. Robert Law
- 1741. Robert Hunter
- 1772. Andrew Dalziel
- 1805. George Dunbar
- 1852. John Stuart Blackie
- 1882. SAMUEL HENRY BUTCHER

*Professors of Logic and Metaphysics.*

- 1708. Colin Drummond, *one of the Regents.*
- 1730. John Stevenson
- 1774. John Bruce
- 1786. James Finlayson
- 1808. David Ritchie
- 1836. Sir Wm. Hamilton, Bart.



1856. Alex. Campbell Fraser  
 1891. ANDREW SETH PRINGLE  
       PATTISON  
*Professors of Moral Philosophy.*  
 1708. William Law, *one of the Regents*  
 1729. William Scott  
 1734. John Pringle  
 1745. William Cleghorn  
 1754. James Balfour  
 1764. Adam Ferguson  
 1785. Dugald Stewart  
 1810. Thomas Brown  
 1820. John Wilson  
 1853. P. C. M'Dougall  
 1868. Henry Calderwood  
 1898. JAMES SETH  
*Professors of Natural Philosophy.*  
 1708. Robert Stewart, *one of the Regents*  
 1742. John Stewart  
 1759. Adam Ferguson  
 1764. James Russell  
 1774. John Robison  
 1805. John Playfair  
 1819. Sir John Leslie  
 1833. James David Forbes  
 1860. Peter Guthrie Tait  
 1901. JAS. GORDON MACGREGOR  
*Professors of Hebrew and Semitic Languages.*  
 (See Faculty of Divinity.)  
*Professors of History.*  
 1719. Charles Mackie  
 1753. John Gordon  
 1754. William Wallace  
 1755. John Pringle  
 1780. Alexander Fraser Tytler  
 1801. William Fraser Tytler  
 1821. Sir William Hamilton  
 1837. George Skene  
 1842. James Frederick Ferrier  
 1846. Cosmo Innes  
 1874. Aeneas Jas. Geo. Mackay  
 1881. JOHN KIRKPATRICK  
 1894. George W. Prothero  
 1899. RICHARD LODGE  
*Professors of Rhetoric and English Literature.*  
 1762. Hugh Blair  
 1784. William Greenfield  
 1801. Andrew Brown  
 1835. George Moir  
 1840. William Spalding  
 1845. William Edmondstone  
       Aytoun  
 1865. David Masson.  
 1895. GEORGE SAINTSBURY.  
*Professors of Sanskrit.*  
 1862. Theodor Aufrecht  
 1875. JULIUS EGGELING  
*Professors of Political Economy.*  
 (See also Faculty of Law.)  
 1871. W. B. Hodgson  
 1880. JOSEPH SHIELD NICHOLSON  
*Professor of Education.*  
 1876. SIMON SOMERVILLE  
       LAURIE  
*Professor of Fine Art.*  
 1880. GERARD BALDWIN BROWN  
*Professor of Celtic Languages, &c.*  
 1882. DONALD MACKINNON  
*Professor of Ancient History and Palæography.*  
 1901. PETER HUME BROWN

## FACULTY OF SCIENCE.

[As Constituted in 1893 by Ordinance No. 12 (General No. 7).]

This Faculty embraces the Chairs of Mathematics, Natural Philosophy, Botany, Anatomy, Chemistry, Physiology, Natural History, Astronomy, Agriculture, Engineering, Geology, and Public Health.



PROFESSORS IN THE FACULTY SINCE ITS INSTITUTION IN 1893.

For Professors of Mathematics and Natural Philosophy, see under Faculty of Arts. For Professors of Botany, Anatomy, Chemistry, Physiology, Natural History, see under Faculty of Medicine.

*Professors of Practical Astronomy.*

- 1786. Robert Blair
- 1834. Thomas Henderson
- 1846. Charles Piazzi Smyth
- 1889. RALPH COPELAND

*Professors of Agriculture.*

- 1790. Andrew Coventry
- 1831. David Low
- 1854. John Wilson
- 1885. ROBERT WALLACE

*Professors of Engineering.*

- 1868. Fleeming Jenkin

- 1885. George Frederick Armstrong

- 1901. THOMAS HUDSON BEARE

*Professors of Geology.*

- 1871. Archibald Geikie
- 1882. JAMES GEIKIE

*Professor of Technology.*

- 1855. George Wilson
- [Chair abolished in 1859.]

*Professor of Public Health.*

- 1898. CHAS. HUNTER STEWART

FACULTY OF DIVINITY.

This Faculty, the second in date, consists of the Chairs of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Biblical Criticism and Antiquities.

PROFESSORS IN THE FACULTY OF DIVINITY SINCE 1620.

*Professors of Divinity.*

- 1620. Andrew Ramsay
- 1627. Henry Charteris
- 1629. James Fairley
- 1630. John Sharpe
- 1648. Alexander Colvill
- 1649. Samuel Rutherford
- 1650. David Dickson
- 1662. Patrick Scougall
- 1664. William Keith
- 1675. Laurence Charteris
- 1682. John Menzies
- 1683. John Strachan
- 1690. George Campbell
- 1701. George Meldrum
- 1709. William Hamilton
- 1732. James Smith
- 1733. John Gowdie
- 1754. Robert Hamilton
- 1779. Andrew Hunter
- 1809. William Ritchie
- 1828. Thomas Chalmers
- 1844. John Lee

- 1859. Thomas J. Crawford
- 1876. ROBERT FLINT

*Professors of Hebrew.*

- 1642. Julius Conradus Otto
- 1656. Alexander Dickson
- 1679. Alexander Amedeus
- 1681. Alexander Douglas
- 1692. Patrick Sinclair
- 1694. Alexander Rule
- 1702. John Goodall
- 1719. James Crawford
- 1732. William Dawson
- 1751. James Robertson
- 1792. George Husband Baird
- 1793. William Moodie
- 1812. Alexander Murray
- 1813. Alexander Brunton
- 1848. David Liston
- 1880. David Laird Adams
- 1892. John Dobie
- 1895. ARCHIBALD ROBERT STIRLING KENNEDY

*Faculty of Law.**Professors of Ecclesiastical History.*

- 1702. John Cumming
- 1715. William Dunlop
- 1726. Matthew Crawford
- 1737. Patrick Cumming
- 1762. Robert Cumming
- 1788. Thomas Hardie
- 1799. Hugh Meiklejohn
- 1831. David Welsh
- 1844. James Robertson

- 1861. William Stevenson
- 1872. Robert Wallace
- 1876. MALCOLM CAMPBELL  
TAYLOR

*Professors of Biblical Criticism and  
Biblical Antiquities.*

- 1847. Robert Lee
- 1868. Arch. Hamilton Charteris
- 1898. JOHN PATRICK

## FACULTY OF LAW.

To this Faculty belong seven Chairs, viz.:—Public Law, Civil or Roman Law, History (Constitutional, &c.), Scots Law, Forensic Medicine, Conveyancing, and Political Economy.

## PROFESSORS IN THE FACULTY OF LAW SINCE 1707.

*Professors of Public Law.*

- 1707. Charles Areskine
- 1734. William Kirkpatrick
- 1735. George Abercrombie
- 1759. Robert Bruce
- 1764. James Balfour
- 1779. Allan Maconochie
- 1796. Robert Hamilton
- 1832. \* \* \*
- 1862. James Lorimer
- 1890. Sir LUDOVIC J. GRANT, Bt.

*Professors of Civil Law.*

- 1710. James Craig
- 1732. Thomas Dundas
- 1745. Kenneth M'Kenzie
- 1755. Robert Dick
- 1792. John Wilde
- 1800. Alexander Irving
- 1827. Douglas Cheape
- 1842. A. Campbell Swinton
- 1862. James Muirhead
- 1889. Henry Goudy
- 1893. JAMES MACKINTOSH

*Professors of History (Constitutional, &c.).*

- 1719. Charles Mackie
- 1753. John Gordon
- 1754. William Wallace

- 1755. John Pringle
- 1780. Alex. Fraser Tytler
- 1801. William Fraser Tytler
- 1821. Sir William Hamilton
- 1837. George Skene
- 1842. James Frederick Ferrier
- 1846. Cosmo Innes
- 1874. Aeneas Jas. Geo. Mackay
- 1881. JOHN KIRKPATRICK

*Professors of Scots Law.*

- 1722. Alexander Bayne
- 1737. John Erskine
- 1765. William Wallace
- 1786. David Hume
- 1822. George Joseph Bell
- 1843. John Schank More
- 1861. George Ross
- 1864. George Moir
- 1865. Norman Macpherson
- 1888. JOHN RANKINE

*Professors of Forensic Medicine*

- 1807. Andrew Duncan, *secundu*
- 1820. William Pulteney Alison
- 1822. Robert Christison
- 1832. Thomas Stewart Traill
- 1862. Sir Douglas Maclagan
- 1897. Sir HENRY DUNCAN  
LITTLEJOHN

*Professors of Conveyancing.*

1825. Macvey Napier  
1847. Allan Menzies  
1856. A. Montgomerie Bell  
1866. James Stuart Fraser Tytler

1892. John Philp Wood  
1900. JOHN LITTLE MOUNSEY  
*Professors of Political Economy.*<sup>1</sup>  
1871. W. B. Hodgson  
1880. JOSEPH SHIELD NICHOLSON

FACULTY OF MEDICINE.

The Faculty consists of thirteen Chairs:—Botany, Physiology, Medicine, Anatomy, Chemistry, Midwifery, Natural History, Materia Medica, Surgery, Clinical Surgery, Forensic Medicine, Pathology, and Public Health. The Professors of Medicine, Materia Medica, Pathology, and Midwifery (for Diseases of Women), are also Professors of Clinical Medicine. Some of these Chairs were instituted in the seventeenth century, but it does not appear that the Medical School and Faculty of the University were established until the beginning of the eighteenth century.

PROFESSORS IN THE FACULTY OF MEDICINE SINCE 1676.

*Professors of Botany.*

1676. James Sutherland  
1706. Charles Preston  
1712. George Preston

*Professors of Medicine and Botany.*

1738. Charles Alston  
1761. John Hope  
1786. Daniel Rutherford  
1820. Robert Graham  
1845. John Hutton Balfour

*Professors of Botany.*

1879. Alexander Dickson  
1888. ISAAC BAYLEY BALFOUR

*Professors of Medicine.*

1685. { Sir Robert Sibbald  
          { James Halket  
          { Archibald Pitcairne .

*Professors of Institutes of Medicine or Physiology.*

1724. William Porterfield  
1726. { Andrew St Clair  
          { John Rutherford  
1747. Robert Whytt  
1766. William Cullen

1773. Alex. Monro Drummond  
1776. James Gregory  
1789. Andrew Duncan  
1819. Andrew Duncan, *secundus*  
1821. William Pulteney Alison  
1842. Allen Thomson  
1848. John Hughes Bennett  
1874. William Rutherford  
1899. EDW. ALBERT SCHÄFER

*Professors of Medicine.*

1724. William Porterfield  
1726. { Andrew St Clair  
          { John Rutherford  
1747. Robert Whytt  
1766. John Gregory  
1773. William Cullen  
1790. James Gregory  
1821. James Home  
1842. William Pulteney Alison  
1855. Thomas Laycock  
1876. Sir Thomas Grainger  
          Stewart  
1900. JOHN WYLLIE

<sup>1</sup> This Chair was declared to be a Professorship in the Law as well as in the Arts Faculty by resolution of the Senatus Academicus in 1879.

*Professors of Anatomy.*

1705. Robert Elliot  
 1708. Adam Drummond  
 1716. John M'Gill  
 1720. Alexander Monro  
 1754. Alex. Monro, *secundus*  
 1798. Alexander Monro, *tertius*  
 1846. John Goodsir  
 1867. Sir WILLIAM TURNER

*Professors of Chemistry and Medicine.*

1713. James Crawford  
 1726. Andrew Plummer  
 1726. John Innes  
 1755. William Cullen  
 1766. Joseph Black  
 1795. Thomas Charles Hope

*Professors of Chemistry.*

1844. William Gregory  
 1858. Lyon Playfair  
 1869. ALEX. CRUM BROWN

*Professors of Midwifery.*

1726. Joseph Gibson  
 1739. Robert Smith  
 1756. Thomas Young  
 1780. Alexander Hamilton  
 1800. James Hamilton  
 1840. Sir J. Y. Simpson, Bart.  
 1870. ALEX. RUSSELL SIMPSON

*Professors of Natural History.*

1770. Robert Ramsay  
 1779. John Walker  
 1804. Robert Jameson  
 1854. Edward Forbes  
 1855. George James Allman

1870. Sir Wyv. T. C. Thomson  
 1882. JAMES COSSAR EWART

*Professors of Materia Medica.*

1768. Francis Home  
 1798. James Home  
 1821. Andrew Duncan, *secundus*  
 1832. Sir Robt. Christison, Bart.  
 1877. THOMAS RICHARD FRASER

*Professors of Surgery.*

1777. Alex. Monro, *secundus*  
 1798. Alexander Monro, *tertius*  
 1831. John William Turner  
 1836. Sir Charles Bell  
 1842. James Miller  
 1864. James Spence  
 1882. JOHN CHIENE

*Professors of Clinical Surgery.*

1803. James Russell  
 1833. James Syme  
 1869. Joseph Lister  
 1877. THOMAS ANNANDALE

*Professors of Forensic Medicine*  
(See Faculty of Law.)*Professors of Pathology.*

1831. John Thomson  
 1842. William Henderson  
 1869. W. R. Sanders  
 1881. WM. SMITH GREENFIELD

*Professors of Military Surgery.*

1806. John Thomson  
 1823. Sir George Ballingall  
 [Chair abolished.]

*Professor of Public Health.*

1898. CHAS. HUNTER STEWART

## FACULTY OF MUSIC.

*Reid Professors of Music*

1839. John Thomson.  
 1841. Sir Henry Rowley Bishop  
 1844. Henry Hugh Pearson

1845. John Donaldson  
 1865. Sir Herbert Stanley  
       Oakeley  
 1891. FREDERICK NIECKS

The Principal is a member of this Faculty *ex officio*, and Professor Kirkpatrick was appointed a member by the Senatus.

## GENERAL COUNCIL OF THE UNIVERSITY.

The Chancellor, the Members of the University Court, the Professors, and the Graduates, are entitled to be registered as Members of the General Council. The fee for registration is £1.

The Register, now containing 9010 Members, is conclusive of the rights of persons to be Members up to 1st January 1903. By the Universities Elections Amendment (Scotland) Act all candidates for graduation must pay the Registration Fee before they can appear for graduation.

Under the Universities Act of 1858, and the Commissioners' Ordinance No. 1, section 3, the Council meets twice a year—viz., on the *first Wednesday of May*, and on the *last Friday in October*, at three o'clock P.M., “to take into their consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time on such questions to the *University Court*, who shall consider the same, and return to the Council their deliverance thereon.” All proposed improvements in the arrangements of the University “shall be submitted to the University Council for their consideration.”

By the Universities Act 1889, besides the two statutory meetings above mentioned, the Council “may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint Committees to investigate into and report upon any matter remitted to them or to carry out instructions given to them by the Council.” The Commissioners under this Act have fixed the quorum of the General Council at ten for every thousand or fraction of a thousand of members on the register, but this provision does not apply to the statutory half-yearly meetings, or to adjourned meetings.

At the meetings of the General Council, in the absence of the Chancellor, Rector, and Principal, the Chancellor's Assessor, and in his absence the Rector's Assessor shall preside; and in the absence of all of these, a Chairman shall be elected by the meeting, but no member of Senatus can preside at any meeting held for the election of an Assessor or Assessors. The

Chairman shall decide all points of order, and has a deliberative and a casting vote ; and in case of an equality of votes at the conclusion of a poll, the Chairman, or any one appointed by the University Court to act for him, shall have a casting vote.

The General Council of this University, and that of the University of St Andrews, together return a Member of Parliament.

The *Chancellor* of the University and *four of the Assessors* in the University Court are elected by the Council. The Chancellor holds office for life, and the Assessors for four years. Two of the Assessors retire biennially, but may be re-elected. In case of a casual vacancy the person elected to fill it retires when the person whom he succeeded would in ordinary rotation have retired. No member of the *Senatus* can vote or take part in the election of any Assessor of the General Council. The next election of two Assessors will take place at the statutory half-yearly meeting in *October 1903*.

Members of the General Council may borrow books from the Library and have out at one time five volumes on payment of an annual fee of 10s. 6d., or a single payment of £5 ; or may have ten volumes on payment of an annual fee of £1, 1s., or a single payment of £10.

Two Standing Committees are appointed by the General Council—viz., a Business Committee and a Finance Committee. The Conveners are :

*Business Committee*—John A. Trail, LL.D.

*Finance Committee*—David D. Buchan, LL.B.

#### STUDENTS' REPRESENTATIVE COUNCIL.

*Presidents*—J. I. Macpherson, M.A. ; S. W. Maclean ; H. L. Munro. *Joint Hon. Secretaries and Treasurers*—Samuel Simpson, The Union ; James Barclay, 13 Marchmont Crescent. *Hon. Auditor*—James Walker, C.A.

The Students' Representative Council was founded in 1884. Its functions are—(1) To represent the Students in matters affecting their interests ; (2) To afford a recognised means of communication between the Students and the University authorities ; and (3) To promote social life and academic unity among the Students. The Council is elected annually in



November, partly by the Students of the different Faculties, and partly by the recognised Students' societies. The Ordinary Meetings are held in November, December, January, February, March, May, June, July, and October. At the November meeting an executive committee is elected, consisting of the three presidents, two secretaries and treasurers, and eleven other members, representing the five Faculties. The Council also carries out its work by means of the following Standing Committees:—The Inter-Universities, Library, Amusements, *Student*, International Academic and Women's Committees. During the Winter Session it publishes weekly a University Magazine.

The Commissioners, acting under the Universities Act 1889, have issued an Ordinance to the following effect:—

- (1.) The Students' Representative Council shall submit to the University Court the regulations under which it exists, and these regulations as approved shall form the constitution of the Students' Representative Council.
- (2.) After the University Court has approved of the constitution, alterations must receive the approval of the University Court.
- (3.) 1. The Council may petition the Senatus as to any matter affecting the teaching and discipline of the University, and the Senatus shall dispose of the matter, or shall, if so prayed, forward such petition to the University Court, with such observations as it may make thereon.  
 2. The Council may petition the University Court as to any matter affecting the Students other than those falling under sub-section 1.  
 3. This Section shall not prejudice any right of appeal under Section 6, sub-section 2, of the said Act, nor the powers and jurisdiction of the Senatus, as to teaching and discipline.

### MATRICULATION.

University Matriculation consists in signing the Sponsio Academica, the Student thus entering his or her name in the Album of Students of the University, and in paying a fee of £1, 1s. for the academic year (1st Oct. to 1st Oct.), or a fee of 10s. 6d. for a Summer Session (1st May to 1st October). No person shall be deemed to be a Matriculated Student or shall enjoy any of the privileges of a Matriculated Student unless, in addition to paying the matriculation fee, he is enrolled as a Student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: Provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or



for graduation, not being at the time a Matriculated Student, in addition to the fee payable for such examination or graduation. No one can attend a University Class without matriculating, except in those special cases in which an Entrance Fee of 5s. only is exacted (see page 29).

The Matriculated Students elect the Rector of the University. In case of an equality of votes, the Chancellor, or failing him, the Principal, has the casting vote. Students are also admitted to the University Library, and on certain days to the Museum of Natural History.

Candidates for Graduation who are attending Extra-Academical Lectures in Edinburgh, and not attending Classes within the University, must, at the beginning of each year, enrol their names in a book kept for that purpose, and pay a Fee of the same amount as the Matriculation Fee. In respect of such payment they have a right to use the University Library.

Sponsio Academica signed by students on matriculating :—

QUOD FAUSTUM FELIXQUE SIT. A. D.—

Ego Universitatis Academicæ Edinburgensis Discipulus sincerè ac sanctè promitto quod et syngraphâ hac meâ in perpetuum testatum cupio, mihi ante omnia cordi ac curæ futurum veræ pietatis studium ; me etiam in assuetis academici curriculum studiis sedulum fore, ut adolescentem bene institutum decet ; et quamdiu in illo curriculo permansero praeceptoribus omnibus morigerum memet praestiturum, nec ullius dissidii aut tumultus clam palamve vel auctorem vel participem futurum, et per reliquam vitam Universitatem Academicam Edinburgensem ipsam grato et benevolo animo prosecuturum, idque omnibus officiis pro facultate mea et occasione data testaturum esse.

#### MATRICULATIONS (1st May 1901 to 1st May 1902).

##### FOR SUMMER SESSION 1901 :—

I. Faculty of Arts	.	.	.	.	.	.	21
II. Faculty of Science	.	.	.	.	.	.	12
III. Faculty of Divinity	.	.	.	.	.	.	0
IV. Faculty of Law	.	.	.	.	.	.	9
V. Faculty of Medicine	.	.	.	.	.	.	25

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67

SUMMER SESSION 1901 brought forward, . . . . .	67
FOR YEAR (1st May to 1st May) :—	
I. Faculty of Arts . . . . .	886
II. Faculty of Science . . . . .	147
III. Faculty of Divinity . . . . .	33
IV. Faculty of Law . . . . .	393
V. Faculty of Medicine . . . . .	1353
VI. Faculty of Music . . . . .	24
	<hr/> 2836

Total Matriculations (1st May 1901 to 1st May 1902) 2903

NON-MATRICULATED EXTRA-ACADEMICAL GRADUATION  
STUDENTS (1st May 1901 to 1st May 1902).

I. Faculty of Medicine :—	
Year (1st May to 1st May) . . . . .	98

UNIVERSITY ENTRANCE FEE FOR NON-MATRICULATED STUDENTS.

The University Court may admit non-Matriculated Students to any Class, on payment of an Entrance Fee (fixed at 5s.) in addition to the Class Fee ; but such attendance (1) will not qualify for Graduation, (2) nor entitle the Student to a Certificate of Attendance, (3) nor confer any other University privilege.

Courses which may be attended under this Regulation :—

- Fine Art, short additional Courses on.
- Procedure and Evidence.
- Mental Diseases.
- Diseases of the Eye.
- Clinical Instruction on Diseases of Children.
- Comparative Embryology.
- Forestry.
- Agricultural Entomology.
- Music Classes.
- Practical Pathological Bacteriology.
- Chemical Laboratory.
- Experimental Pharmacology.
- Italian Language and Literature.
- Celtic (for Classes not qualifying for Graduation).
- German Lit. and Prose Comp. Courses, twenty lectures each.
- Advanced Practical Physiology.
- International Private Law.
- Physics for non-Graduation Women Students of Medicine.
- Diseases of Tropical Climates.
- Mackay Lectures and other non-Graduation Courses on History,  
by Mr D. P. Heatley.

Garton Lectures on Colonial and Indian Agriculture.

Economics Course, by Mr Arch. B. Clark.

Elementary Agriculture.

Ancient History and Palæography.

Number of Non-Matriculated Students who have paid the Entrance Fee  
1st May 1901 to 1st May 1902 . . . . . 48

Other Courses may be sanctioned under this Regulation.

Students are subject to the disciplinary jurisdiction of the Senatus. Among offences visited with severe academic penalties may be mentioned riotous or disorderly conduct, copying at examinations, and mutilating or disfiguring books belonging to the Library.

#### UNIVERSITY EXAMINERS.

The Examiners for Degrees are the Professors of, or Lecturers on, the different subjects, along with additional Examiners appointed by the University Court. As a general rule, no Professor, Lecturer, or University Assistant or Demonstrator can be appointed an additional Examiner.

#### GRADUATION CEREMONIALS.

The relative precedence of each Faculty is as follows:—1. Divinity; 2. Law; 3. Medicine; 4. Arts; 5. Science; 6. Music. The Deans take precedence in their respective Faculties, followed by the Members of their Faculties in the order of the dates of their Commissions.

Public Graduation Ceremonials are held annually about the middle of April (chiefly for Divinity, Law, Arts, Science, and Music), and about the end of July (for Medicine and Science). A special Ceremony is usually held about the end of October (chiefly for Degrees in Medicine).

Graduates must appear on these occasions in Academic Costume.

#### ACADEMIC COSTUME.<sup>1</sup>

*Chancellor.*—Robe of Black Brocaded Satin, trimmed with Gold Lace, and with Gold Frogs down fronts and on sleeves. Black Silk Velvet Trencher, with Gold Button and Tassel.

*Vice-Chancellor.*—Robe and Trencher same as Chancellor's, but trimmed with Silver in place of Gold.

*Rector.*—Black Silk Gown, with Crimson Silk Velvet Sleeves. The gown is trimmed round the collar and down the front edges with Broad Gold Lace, and the sleeves round bottom with a narrower Gold Lace. Black Silk Velvet Trencher, with Gold Button and Tassel.

<sup>1</sup> Graduates are requested to appear for Graduation wearing one hood only—viz., the one which indicates the Degree they are about to receive.

*Principal*.—Mauve Corded Silk Robe trimmed with Velvet to match. Black Silk Velvet Trencher, with Gold Button and Tassel.

*Members of University Court*.—Black Silk Robe, open sleeve, with Gold Frog on each sleeve.

With all of the above, Hoods appropriate to the Degree are worn.

The ordinary form of Gowns worn by Graduates of the University is the same in all the Faculties—viz., black silk or stuff, with long sleeves. The distinctive part of the costume is in the *Hood* appropriated to each Faculty. These Hoods are as follow :

LL.D.—Black *cloth*, lined with *blue* silk.

LL.B.—Black *silk*, lined with *blue* silk, bordered with white fur.

B.L.—Black *silk*, edged with *blue* silk three inches broad, trimmed with white fur.

D.D.—Black *cloth*, lined with *purple* silk.

B.D.—Black *silk*, lined with *purple* silk, bordered with white fur.

M.D.—Black *cloth*, with appended cape, lined and faced with *crimson* silk.

M.B. and Ch.B.—Black *silk*, lined with *crimson* silk, bordered with white fur.

D.Sc.—Black *cloth*, lined with *green* silk.

B.Sc.—Black *silk*, lined with *green* silk, bordered with white fur.

M.A.—Black *silk*, lined with *white* silk.

D.Litt.—Black *cloth*, lined with *royal blue* and *maize shot silk*.

D.Phil.—Black *cloth*, lined with *Vesuvius* and *white shot silk*.

Mus.D.—Rich scarlet *cloth*, with rich *white* corded silk lining.

Mus.B.—Scarlet *silk*, with *white* silk lining, edged with *white* fur.

The full Academic Dress for Doctors is a Gown of superfine Scarlet Cloth, loose sleeves, the cape and facings down the front covered, and the sleeves lined, with rich silk of the colour proper to the Degree. Birretum of black silk velvet.

## REGULATIONS OF UNIVERSITY COURT.

### I.—ABSENCE OF PROFESSORS.

1. When any Professor shall be prevented from teaching his Class for more than three successive days, an arrangement shall be made for his Class being taught in his absence ; and such arrangement shall be intimated to the Dean of his Faculty.

2. When any Professor has reason to expect that the demands of his Profession may involve absence from duty for more than four days in all in the course of a Session, an arrangement similar to that in Regulation 1 shall be made and intimated to the Dean of his Faculty.

3. No arrangement for teaching a Class in absence of the Professor shall continue longer than one week without the sanction of the Senatus Academicus ; or, if there be no sufficiently early meeting of the Senatus, without the *interim* sanction of the Principal and Deans Committee.

4. When any Professor shall contemplate an absence from duty of

more than one week, it shall be necessary for him to obtain the sanction of the Senatus for such absence, and for the arrangements for teaching his Class; and if his contemplated absence extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court.

5. No Professor shall employ any one other than a Colleague or University Assistant to teach his Class for him, without obtaining the sanction of his Faculty; and such sanction shall be communicated to the Senatus at its first meeting thereafter.

6. The Statement of the arrangements for teaching a Class in the absence of the Professor, submitted to the authorities of the University, shall specify the remuneration proposed to be given to the Professor's Substitute.

## II.—ABSENCE OF EXAMINERS.

1. Any University Examiner who finds himself prevented from being present at any Examination at which it is his duty to act, shall intimate this to the Dean or other Chairman of his Examining Board, who, on receiving such intimation, or otherwise becoming aware of the absence of the Examiner, shall, if possible, appoint a properly qualified Substitute to act for such Examiner.

2. In every case in which a person is appointed to act as Substitute for a University Examiner, and in which his Faculty, or Examining Committee, shall consider it necessary that the Substitute shall receive remuneration, the rate of remuneration to be paid by the Examiner (whether a Professor or Additional Examiner) to his Substitute shall be fixed by the Faculty, or Examining Committee, and shall be based upon the amount of the Fees payable to the Additional Examiners attached to the Faculty or Examining Committee.

3. All absences of University Examiners, their duration and cause, and the relative arrangements made, shall be immediately reported for approval to the Senatus Academicus by the Chairman of the Board to which the absent Examiner is attached; and a similar Report shall in every case of the absence of a University Examiner be made by the Senatus Academicus to the University Court; provided always that such arrangements shall receive immediate effect when circumstances do not permit the previous approval of the Senatus Academicus to be obtained.

4. In every case in which a Professor shall apply for leave of absence from his duties generally, provision shall be made, under the existing Regulations regarding leave of absence to Professors, for the performance of his duties as Examiner, as well as for the performance of his duties as Teacher; and provision shall be made for the remuneration of his Substitute in both capacities.

## III.—APPLICATIONS FOR ADDITIONAL (OR NON-PROFESSORIAL) EXAMINERSHIPS IN THE UNIVERSITY.

1. Applicants should lodge twenty copies of their applications (one

of which should be signed), and twenty copies of any testimonials they may desire to present, with the Secretary of the Court, not later than one week before the day fixed for making appointments in each case.

2. Applicants who send in testimonials must not send more than four for any one appointment.

3. Persons may be appointed to examine in two of the thirteen Subjects of the Examinations for Graduation in Medicine, but not more, and not in more than one Subject in any one Division of the Examinations.

4. Every applicant for an appointment in Divinity must hold the degree of B.D. from a Scottish University.

Every applicant for an Examinership in Law must be a Bachelor of Laws of a Scottish University.

#### IV.—OPENING OF NEW CLASSES.

No class in addition to those existing in the University shall at any time be opened,—whether for the purpose of dividing the course on a subject necessary for graduation, or for teaching a class not requisite for graduation,—without the approval of the Senatus and the sanction of the University Court.

#### V.—RECOGNITION OF EXTRA-ACADEMICAL TEACHERS.

1. Every applicant for recognition shall furnish for the information of the Authorities of the University :—

(1.) A Statement of his Registered Qualification or Qualifications, and of the name of the Office, or Appointment (if any) which he holds, as a Teacher of the Subject in which he requests recognition.

(2.) A Syllabus of his Course of Lectures ; or, in the case of a Practical Class. information of a similar kind.

(3.) A Statement of the number of Lectures, and of the number of Written or Oral Examinations in the Course ; or, in the case of a Practical Class, information of a similar kind.

(4.) A Short Description of his Accommodation for a Class ; and of the Apparatus, Illustrative Specimens, Diagrams, and other appliances, at his disposal for teaching the Subject in which he desires recognition.

(5.) A Statement of his opportunities of studying the Subject, and of the length of time devoted thereto.

(6.) A Statement of the experience he has had in teaching the Subject.

(7.) A Note of the Titles of his published Contributions to the Science of the Subject.

(8.) A Statement as to whether his Course or Courses of Instruction have been already recognised by any University or other examining body, and, if so, what means were adopted for ascertaining his qualifications for teaching.

2. In the case of every Applicant for recognition residing in Edin-



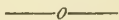
burgh or its neighbourhood, an inspection shall be made of his teaching Appliances and Accommodation for teaching.

3. Every recognised Extra-Academical Teacher shall annually furnish the University with the information regarding his Course or Courses which is required from the University Professors as to (1.) The number of Students attending the recognised Course or Courses of Instruction ; (2.) The number of meetings for ordinary Class Work in the Session, and in each week thereof ; (3.) The number of Special Written Examinations ; (4.) The system of conducting the ordinary Class Work, and the number of meetings devoted to each kind of work.

4. The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers, should, in all cases, state the duration of the Course and the number of Meetings for Systematic, Tutorial, and Practical Instruction, respectively ; the number of occasions on which attendance was ascertained, and the number of those occasions on which the Student was present ; and the number of Class Examinations held during the Course, and whether or not the Student has taken a satisfactory part in the work of the Course, including the Class Examinations, if any. The Certificate should also state the general scope of the Course ; and, in particular, in the case of Chemistry, that the Course included Organic as well as Inorganic Chemistry ; in the case of Midwifery, that it included the diseases of Women and Children ; and, in the case of Practical Materia Medica, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

5. When application is made for the recognition of a Course taught by two or more Teachers in conjunction, information shall be given of the share to be taken by each Teacher in such conjoined Course ; and the recognition of such conjoined Courses, and of each of the persons recognised as Teachers of a conjoined Course shall, *ipso facto*, terminate should one or more of the Teachers cease to conduct the Course, or should any material change be made in the share of each Teacher in the teaching of the conjoined Course.

6. The recognition of any Teacher who fails to furnish the information called for in Section 3, or an explanation relative to such failure ; or who has ceased for the period of two consecutive Sessions to teach the subject on which he is recognised, shall, *ipso facto*, terminate.



## University Buildings.

THE University Buildings at present consist of: (1) The College, or University (Old) Building, with Dome, in South Bridge Street ; (2) The New Buildings (School of Medicine), Teviot Place ; and (3) The Music Class Room, Park Place.



## I.—THE UNIVERSITY (OLD) BUILDING.

The Old Building, on the site of “Kirk o’ Field,” the scene of the murder of Darnley, contains the Library and Reading Rooms; the Class Rooms of the Faculties of Arts, Divinity, and Law, the Natural History, and some other Science Class Rooms; the Theological Library and Reading Room; the Examination Hall; the Physical, and the Geological and Petrological Laboratories; the Fulton Engineering Laboratory; the Physical, Geological, Fine Art, and Natural History Museums; the Senate Hall, University Court Room, and the Offices of the Senatus, the Court, and the Students’ Representative Council.

The work of teaching began in 1583, but before the end of the eighteenth century, the professors and students had been very imperfectly housed. In a Memorial, dated 1768, Principal Robertson complains that the buildings, “poor in themselves, seem not to have been carried on according to any regular plan, such as takes place in other academical structures which have been erected on more opulent foundations; and hence the whole fabric has a mean, irregular, and contemptible appearance.” At that time the number of students was between six and seven hundred, and that of professors twenty-one.

Twenty years later a writer in the “Scots Magazine” complains that “in 1788 the buildings of the University are in the same ruinous condition that they were in in 1768, and the most celebrated University at present in Europe is the worst accommodated.” A scheme for rebuilding, often discussed, was now taken up seriously by the Town Council, encouraged by promise of liberal aid from Government. A plan was obtained from Robert Adam, then at the height of his reputation, and the foundation stone of “the New College of Edinburgh” was solemnly laid on 16th November 1789.

Adam’s original plans, preserved in the Soane Museum in London, divide the space now occupied by the College buildings into two quadrangles, a smaller to the east, entered as now from South Bridge Street, and a larger beyond it to the west, with a block of academic buildings lying between. This arrangement was doubtless suggested by the rapid rise of the

ground from north-east to south-west. Round these two courts there were to be Class Rooms, Museums, a Library, and also houses for the Principal and Professors. The western side of the larger court was to be occupied by a Graduation Hall and Chapel ; and the great quadrangle was to be flanked with corridors, affording communication between the class-rooms. The building, begun chiefly on the eastern and northern sides, was, however, soon stopped by the death of the architect in 1792, and by failure of funds. In 1815 a Government Commission was appointed to collect funds and to carry out the undertaking, though in a modified form. They invited plans "for finishing the College of Edinburgh, on a reduced scale, leaving out the south front, and the cross building, which formed the small court in the original plan,—regard being always had to the part already executed, and to the preservation of the architecture of Mr Adam, as far as practicable." Out of nine sets of plans sent in, those of William Henry Playfair were selected, and under his superintendence the work was practically completed in 1828, at a total cost of about £161,000.

The general character of the whole design is due to Robert Adam. Some portions were erected by him, or completed after his death from his drawings. In other parts some modification of his plans and elevations was necessary, while a third portion had to be designed anew by Playfair, who was careful to conform to Mr Adam's design. The handsome eastern façade, with its monolithic columns 22 feet in height, was erected by Adam, who intended to have embellished it with a certain amount of sculpture. He also erected the north-west corner of the great court, of which the circular Loggie form an admired feature, carried out part of the north side, and began the western block. Playfair threw the two courts into one, and designed the north and south interior elevations anew. In the western block he adhered to Adam's designs ; but the interior treatment of the block, fitted up for the Natural History Museums, is his own ; and the "Upper Museum," now the Natural History Laboratory, is a good specimen of his style. The "circular corners" designed by Adam for his great court

were retained by Playfair for his single quadrangle. On the exterior, the north front is Adam's, and its plainness is due to the fact that only a narrow lane instead of the broad Chambers Street then bounded the College on that side. Adam's handsome design for the south front was simplified by Playfair, but is still superior to the north elevation.

The difficulty of the levels in the quadrangle was satisfactorily overcome by Playfair by surrounding the court with a terrace, which affords a suitable architectural base for the noble buildings rising above it. But Playfair's great achievement is the Library Hall, a fine gallery 185 feet by 54 feet, with an arched ceiling enriched with cassettes.

The general effect of the buildings is simple and dignified. The material is mainly Craigleith stone, and the detail carving is well worked out. The single quadrangle, measuring 242 feet 6 inches from east to west, by 134 feet from north to south, is a great improvement on the original plan of 1789, though the essentials of the design are due to Adam. The interior elevations of the quadrangle, especially on the west, and the eastern front to South Bridge Street, may safely be pronounced excellent specimens of the neo-classic style.

#### THE DOME.

Adam's original design provided for a Dome over the eastern portal, but as his sketch was not very pleasing, no steps were taken to carry out this feature until 1883, when funds came into the possession of the University, bequeathed for this purpose by Robert Cox, Esq., W.S. It was then determined to carry out the Dome on a new design by R. Rowand Anderson, LL.D., Architect of the University New Buildings (School of Medicine). The present Dome, though less purely classical than the Adam-Playfair building, is pleasing and effective. An admirable finial is formed by a vigorous and athletic figure of Youth, bearing the torch of Knowledge, executed in bronze by John Hutchison, Esq., R.S.A. The Dome now contains the Fine Art Museum.

## II.—THE UNIVERSITY NEW BUILDINGS.

### (SCHOOL OF MEDICINE.)

In 1869 the number of students had risen to fifteen hundred,

and that of the Professors to thirty-three, while there were seventeen Class Rooms only for their use. A Committee was therefore formed in 1873, and an appeal was made to the public for subscriptions for the purchase of a site for and the erection of complete Class Rooms, Theatres, Laboratories, and Museums for the Faculty of Medicine ; for reorganising the Class Rooms in the Old Building for the Faculties of Arts, Divinity, and Law ; for providing better accommodation for the Library ; for erecting a Hall for examinations and academic ceremonials ; and for improving the north front of the College building.

This appeal to the public yielded a sum of £148,548, 2s. 5d., which, with a grant of £80,000 from Government, and interest, rents, &c., amounted to £244,587, 4s. 8d.

These buildings (the University New Buildings), begun in 1878, were partly opened for teaching purposes in October 1880, and after their completion, were transferred by the Committee to the University in October 1888. They are situated on a site formerly covered by Teviot Row, Park Street, and Park Place, and were designed by R. Rowand Anderson, LL.D., Architect, and completed under his supervision.

They contain the Lecture Rooms, &c., of the Faculty of Medicine (excepting those of Botany and Natural History), the Museums of Practice of Physic, Anatomy, Chemistry, Obstetrics, Materia Medica, and Surgery ; a Students' Reading Room, Students' Common Room, Faculty of Medicine Reception and Reading Rooms, and Office of the Faculty.

The style of architecture is Italian of the Cinque-Cento period, intermediate between the Gothic and the stiff Palladian work, which aims at a mere manipulation of the five orders. The main frontage presents a slightly projecting elevation, pierced by the archway which forms the principal entrance. Over the arch is an ornate window, flanked by pilasters, between which are niches for statuary ; and the whole is surmounted by a bold semi-circular pediment, intended to be occupied with sculpture. The façade is three storeys in height except in the projecting west wing, which has an additional floor. On the ground floor the windows are square. Above these runs a well-marked string-course orna-

mented with dentils. The first-floor windows are round-headed and furnished with architraves. Next comes a broad frieze relieved at intervals with circular panels. Over this the string-course is repeated ; and the upper-floor windows are separated by pilasters, and divided by shafts supporting circular tracery. The wall is finished at the top with architrave, frieze, and cornice, and crowned with a low-pitched roof. The external features have of course been influenced by the internal arrangements.

### THE M'EWAN HALL.

In the month of November 1885, the Acting Committee for the University of Edinburgh Buildings Extension Scheme, resolved to apply to Parliament for power to acquire property adjoining the University as a site for a University Hall. Certain members of the Committee were incorporated as Trustees for this purpose, and one of their number, Mr William M'Ewan, M.P., munificently offered to contribute the sum required for the erection of the Hall, on condition that the cost of the site was provided from other sources. A Parliamentary grant of £8000 was obtained, and Mr M'Ewan having generously provided the balance required, the site was purchased. The erection of the "M'Ewan Hall," so named by the Senatus Academicus in grateful recognition of the Donor, was begun in 1888 and finished in 1897, from the designs and under the superintendence of R. Rowand Anderson, LL.D. The total cost of the Hall including the extensive scheme of mural painting executed by Mr William M. Palin, and the Grand Electric Organ, was about £115,000, and as an architectural monument it is not excelled by any Academic building in the country.

The Hall is of theatre form, and the external elevation conforms to the architectural style of the early Italian Renaissance adopted in the other University New Buildings. It is capable of holding upwards of 2600 people, and is used for Academic Ceremonials, Concerts of a high-class, and other functions approved by the University Court.

## III.—REID SCHOOL OF MUSIC.

The School of Music, situated immediately to the south-east of the University New Buildings, was built in 1858, from the designs of the late David Cousin. It contains the Music Class Room, with an organ of four manuals and sixty-six stops, in a handsome carved oak case ; and a Museum of interesting acoustic and antique musical instruments.

The architecture of the building is in the Italian Renaissance style of the early part of the sixteenth century.

THE HUGHES BENNETT LABORATORY OF  
PHYSIOLOGY.

The Hughes Bennett Laboratory was erected in 1901 by Mrs Cox of Gorgie, at a cost of £2800, in memory of her father, the late John Hughes Bennett, M.D., Professor of Physiology in the University, 1848-1874. It is situated on the south side of the University New Buildings, and is in direct connection with the existing Physiology Laboratories. It consists of three parts ; one, a large laboratory, which accommodates sixty-four students at one time, and is fitted with the most modern appliances for practical work by each individual student ; another, a small theatre intended especially for demonstrations of experiments which the students cannot perform individually. This theatre accommodates about 100 students at one time. The third part is a room which is intended to be used for the demonstration of microscopic specimens.

A bronze bas relief of Professor Hughes Bennett, by Mr Pittendrigh MacGillivray, R.S.A., is placed on the south wall of the large room. The laboratory was opened on 20th July 1901, and formally handed over to the University by the donor. An address was delivered in the M'Ewan Hall by Sir John Burdon Sanderson, Bart., F.R.S., Regius Professor of Medicine in the University of Oxford.



# University Library.

## LIBRARY COMMITTEE.

THE Library Committee consists of not more than seven members, not being members of the Senatus, appointed by the University Court, and of such number appointed by the Senatus as shall be double the number appointed by the Court. The Committee is charged with the superintendence of the Library, and of any libraries acquired, or to be acquired, for the use of the University. The members of the Committee are appointed by the University Court and the Senatus respectively at their first meeting in the Winter Session.

Principal Sir WILLIAM MUIR, K.C.S.I., &c., &c.,	} <i>Joint Chairmen.</i>
THOMAS M'KIE, Advocate,	
Professor EGDELING,	} <i>Joint Conveners.</i>
J. BURGESS, C.I.E., LL.D.,	

Professor Baldwin Brown ; Professor Crum Brown ; Professor Hume Brown ; Professor Cossar Ewart ; Professor Flint ; Rev. Edward F. Hoernle, M.B. ; A. Taylor Innes, M.A. ; Professor Kirkpatrick ; Professor Mackinnon ; Hew Morrison, Esq. ; Professor Niecks ; Professor Patrick ; Professor Saintsbury ; Professor Schäfer ; Professor Simpson ; John Turnbull Smith, LL.D. ; John Arbuthnot Trail, LL.D.

In 1580 Mr Clement Littil or Little left his books to "Edinbvrgh and Kirk of God thair to reman." This collection of about 300 volumes, chiefly theological (see list in Miscellany of the Maitland Club, vol. i., 1834), was transferred by the Town Council to the University, and became the nucleus of the University Library.

The celebrated Poet, Drummond of Hawthornden, bequeathed his library to the University in 1627—a valuable gift, both from the eminence of the donor, and the rare specimens of early literature it embraces (see *Auctarium Bibliothecæ Edinburgensæ*, 1627).

Among noteworthy donors are Principal Adamson ; Dr Robert



Johnston, a physician in London; the Rev. James Nairne of Wemyss, in Fife; Dr John Stevenson, Professor of Logic and Metaphysics in the University; and Dr William Thomson, Professor of Anatomy in the University of Oxford. In 1872, Mr J. O. Halliwell, the eminent Shakespearean critic, presented his very valuable collection of works relating to Shakespeare. In 1875 a large collection of Persian and Arabic MSS. was presented by Mr J. B. Baillie of Leys; in 1879 an extensive collection of MSS. was received from the executors of David Laing, LL.D.; in 1880 the works on Economic Science collected by Professor Hodgson were presented by Mrs Hodgson; in 1882 valuable works on Sanskrit Literature were presented by the family of Dr John Muir; and in 1886 Mr Thomas Stratton bequeathed 110 works bearing on the study of Celtic. In 1889 Sir William Mackinnon, Balinakill, purchased the books of Dr Cameron of Brodick, an eminent Celtic scholar, for £600, for presentation to the University; and the same year the Library received a collection of MS. Shakespeariana from Mr Halliwell-Phillipps, and a number of books belonging to the late Professor Wilson, from Mrs Wilson. A "Lorimer Collection," in memory of the late Professor Lorimer, was presented by his son-in-law, Sir David P. Chalmers. In 1895 Professor Blackie left to the Library his collection of modern Greek books; and important additions were received from the Goodsir bequest, and from Major Sprot, as representative of the late Dr Cleghorn of Stravithie. In 1898 Sir William Fraser left a very handsome legacy to the Library, putting it for the first time since the General Reid Bequest ceased to be separately administered, in possession of funds of its own.

The Library contains about 208,000 printed volumes, and about 7500 MSS., many of which are of great value.

The University also possesses a number of valuable pictures and busts, which adorn the Library and the Senate Hall.

The Library Hall, and the suite of rooms connected with it, occupy the south side of the quadrangle (Old Buildings).

In 1895 the following Library Regulations were laid down by Ordinance (No. 64):—

I. The Librarian shall have the ordinary management of the Library of the University, subject to the superintendence of the Library Committee appointed under the provisions of Ordinance No. 8 [St Andrews, Aberdeen, and Edinburgh, No. 1,—Libraries and Museums].

II. The Librarian, and such Assistant-Librarians as the University Court, on the report of the Library Committee, may think necessary, shall be appointed by the University Court. The University Court shall also have the power of suspending or dismissing such Librarian and Assistant-Librarians.

III. All books ordered for the Library by the Library Committee shall be sent direct to the Librarian, and all books received by him shall be forthwith catalogued by him in such manner as the Library Committee may direct, and stamped with the Library stamp; and no person shall be allowed to use or borrow any book until it has been entered in the catalogue and stamped.

IV. The Librarian shall, with the approval of the Library Committee, from time to time prepare a list of such books, manuscripts, and other works as cannot, in consequence of any deed of gift or otherwise, be lent out of the Library; and the Library Committee shall from time to time make such regulations as they shall think expedient for allowing access to such works for consultation.

V. Manuscripts, rare books, works of reference, and such other works as the Library Committee shall determine, shall not be lent out of the Library, except under regulations to be made by the Library Committee and approved by the Senatus Academicus and the University Court; and, in addition to such general regulations, the Library Committee may, in each individual case of borrowing such works, impose such special conditions as they may think necessary or expedient: Provided always that every such special permission and all such additional conditions imposed by the Library Committee shall be entered in the Minute-Book of the Committee.

VI. It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee.

VII. It shall be in the power of the University Court, after consultation with the Senatus Academicus, and on the report of the Library Committee, to sell or exchange such works as they consider it in the best interests of the Library to dispose of.

VIII. A general inspection of the Library shall take place at such times and during such periods as the University Court, on the report of the Library Committee, shall determine, and all works whatsoever, and by whomsoever borrowed, shall be returned to the Library before the commencement of such periods, under a penalty previously fixed and publicly notified by the University Court.

IX. The Library Committee shall frame regulations to be approved by the University Court, under which the persons hereinafter mentioned may respectively borrow or consult books. Such regulations shall prescribe, *inter alia*, (a) the number of books which the said persons shall be entitled to borrow; (b) the period for which they shall be allowed to retain them; (c) the penalties to be imposed in the event of their failure to return books in due time, or in the event of books being lost or injured.

The persons entitled to borrow books shall be:—

1. Members of the Senatus Academicus and University Lecturers.
2. University Assistants and Examiners.
3. The Librarian and Assistant-Librarians.
4. Matriculated Students.

5. Extra-academical Teachers, recognised by the University Court, in the town in which the University is situated.
6. Students enrolled in any Scottish University as attending the lectures of extra-academical teachers in the town in which the University is situated, and who are already entitled by Ordinance to the use of the Library.
7. Persons who have retired or who shall hereafter retire from the office of Principal or Professor.
8. Members of the University Court.
9. Members of the General Council.

Provided that no member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the Teachers or Students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

In fixing the number of books to be borrowed by the aforementioned persons respectively, due regard shall be had to the preferable claims of those engaged in teaching and studying in the University.

X. Members of the General Council shall be required, as a condition of exercising the privilege of borrowing books, to pay such subscription as the University Court shall fix from time to time.

XI. The University Court shall determine what sum, if any, shall be deposited by those entitled to borrow books.

XII. The Library Committee, with the approval of the University Court, may admit to the use of the Library, upon such conditions as to subscription and otherwise as they may require, members of the General Council of other Scottish Universities and Graduates of the University who, by reason of being under the age of twenty-one years, are not qualified to be members of the General Council.

XIII. It shall be in the power of the Library Committee from time to time to grant the use of the Library to such extent and on such conditions as they shall think expedient to persons who may not be members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court.

XIV. So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

XV. The Library Committee shall, in an annual report to the Senatus Academicus, furnish information as to :

1. The state in which the borrowing registers are kept, and whether there is in use any finding list or other means for facilitating the recal of books.
2. The condition of the various catalogues, whether they are brought up to date or not; the amount of arrears, if any, of the cataloguing of the titles of current acquisitions; and what portions of the Library, if any, remain uncatalogued.
3. The amount of money spent in the purchase of books and periodicals respectively, and how the expenditure has been distributed among the several departments of literature and science.

XVI. At such time as shall be fixed by the *Senatus Academicus* the Librarian shall report to the *Senatus* in reference to the year then ended :

1. The particulars of every case of admission to special reading privileges.
2. The particulars of every case in which the right to the use of the Library has been suspended or is in abeyance.
3. Every case in which a book belonging to the Library has been replaced at the expense of a borrower.
4. The titles of all books belonging to the Library, known to have been lost or seriously injured, or found at the time of inspection to be amissing.
5. The titles of all books entered as missing in previous reports which have been recovered.
6. The number of accessions to the Library acquired by purchase and received in donation respectively.
7. Any other matter which the Librarian may think it of importance to bring under the notice of the *Senatus Academicus*, or which he may be directed by the Library Committee to report.

The *Senatus Academicus* shall forward the report to the University Court.

XVII. Ordinances numbered 68 and 89 of the Commissioners under the Universities (Scotland) Act, 1858, are hereby repealed, provided that the regulations therein contained shall continue to be in force in each University until new regulations have been framed by the Library Committee, and approved by the University Court under the provisions of this Ordinance.

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## SUPPLEMENTARY REGULATIONS UNDER ORDINANCE 64, XVII.

I. The Library is open on Mondays, Tuesdays, Wednesdays, Thursdays, and Fridays, from 10 A.M. to 4 P.M. during the Winter Session ; from 10 A.M. to 3 P.M. during the summer and autumn ; and on Saturdays from 10 A.M. to 1 P.M. throughout the year ; with the following exceptions :—

During the Christmas Vacation and the month of August the Library is open on the above-mentioned days (exclusive of Saturdays) from 10 A.M. to 1 P.M. only.

The Library is closed on Saturdays during the Christmas Vacation and the month of August ; Victoria Day, Christmas Day, New Year's Day, Good Friday, the Saturday before Easter, and the Edinburgh Spring and Autumn Holidays ; and (except for the return of books) during the Annual Inspection (see Regulation IX.).

II. Members of the undermentioned classes of readers may

borrow from the Library and have out at one time, respectively, the number of books specified below, but no larger number (except as provided in Regulation VII.):

Members of Senatus and University Lecturers—25 vols.

Former Principals and Professors, Members of the University Court and the Library Committee, University Assistants, University Examiners, and the Librarian—10 vols.

Members of the General Council of any Scottish University, Graduates of Edinburgh University under the age of 21, and extra-academical teachers recognized by the University, on an annual payment of 10s. 6d., or a single payment of £5—5 vols. : on an annual payment of £1, 1s., or a single payment of £10—10 vols.

Assistant-Librarians and Clerks in University Offices (being of age)—5 vols.

III. No person shall be allowed to borrow books in more than one capacity.

IV. Subject to the provision as to the return of books before the Annual Inspection (Regulation X.), every member of the classes mentioned in Regulation II. is entitled to retain a book for one month: but this period may be prolonged until the time of the Annual Inspection, if the book is not otherwise required under Regulation VI. Provided that the Librarian may recall a book at any time, if required for class purposes.

V. Every Matriculated Student and every student enrolled as attending an extra-academical teacher in Edinburgh (under Ord. No. 16, Edinburgh, No. 1, Sect. viii., Sub-sect. 5) may borrow and have out at one time three volumes, but not more, and may retain any book for two weeks; but this period may be prolonged, with the permission of the Librarian, if the book is not otherwise required under Regulation VI. Provided that every such student, before borrowing a book for the first time in each academical year, must exhibit his Matriculation Ticket, and one Class Ticket, and deposit £1 at the Matriculation Office; after which his name will be enrolled in the Library

Books. Provided also that the Librarian may recall a book at any time, if required for class purposes.

VI. When a borrower has had a book out for a period (as determined by Regulations IV. and V.) of one month or two weeks, as the case may be, the Librarian may recall such book, if required by another person. If the book so recalled be not returned on or before the day specified on the notice of recall, the borrower shall be liable to a fine of one shilling per volume; and to a further fine of sixpence per volume for every subsequent day so long as the book is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above-mentioned fines shall be required, until the total amount is equal to the value of the book.

VII. In exceptional cases, the Library Committee may increase the number of books allowed by Regulations II., and V., or extend the periods fixed by Regulations IV. and V.; provided that in every such case the additional number or period be specified, and entered in the Committee's minutes, and that the Committee may attach to the permission such conditions as it may deem advisable.

VIII. No book shall be given out except to the borrower in person, or to some one having written authority from him; nor without the presentation of a Library Ticket, or a written request, signed by the borrower: and all books borrowed shall be entered immediately, with the date of borrowing, in the ledger or ledgers kept for the purpose.

IX. A General Inspection of the Library shall take place annually during the month of April, and shall last for one week. During this period the Library shall be closed, except for the return of books.

X. All books, except as provided for by Regulation XI., must be returned to the Library before the commencement of the General Inspection, under a penalty of one shilling



for every volume not returned. Notice of each book not so returned shall be sent forthwith by the Librarian to the borrower, requiring its return before the close of the Inspection ; and if the book or books so required be not returned on or before that date, the borrower shall be liable to a fine of sixpence a day for each volume so long as it is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above fines shall be required, until the total amount is equal to the value of the book.

XI. In exceptional cases, the Library Committee may, before the commencement of the General Inspection, and on the written application of the borrower, give permission to keep out a book or books over one period of Inspection only, provided that the borrower sign a fresh ticket for them.

XII. All books returned to the Library, if not sent by rail or post, must be delivered, at the Library-counter, to the Librarian or one of the Assistant-Librarians ; and a receipt for books so returned shall be given if required.

XIII. Unbound numbers of periodicals shall remain for consultation in the Library during the first month after publication ; they may then be borrowed, but shall not be retained longer than fourteen days without the special permission of the Librarian.

XIV. Manuscripts, books, and other works contemplated under Ordinance 64, Section iv., are divided into two classes. Those in class (*a*) may be consulted with the permission of the Librarian, who shall report such permission to the Library Committee at their next meeting ; those in class (*b*) may not be consulted without the leave of the Library Committee previously obtained. Works included in either class shall be consulted only in such parts of the Library as the Librarian shall determine.

XV. Manuscripts, books, and other works contemplated under Ordinance 64, Section v., are divided into two classes, viz. :



(a) works of reference, (b) manuscripts and other works. Works comprised in class (a) may be lent out by the Librarian from the hour of closing to the next hour of opening (except during the Annual Inspection), subject to a penalty of two shillings a day per volume if not returned. Manuscripts and other works comprised in class (b) may be lent out by permission of the Library Committee only, subject to such conditions as the Committee may in each case determine. Provided that, in urgent cases, such works (not being manuscripts) may be provisionally lent out by the Librarian and two members of the Library Committee, subject to the approval of the Committee at their next meeting, and to such conditions as the Committee may in each case determine.

XVI. All fines shall be collected by the Librarian, and paid over by him to the Factor of the University. A report of names and amounts shall be made annually by the Librarian to the Library Committee. No fine shall in any case be remitted, except by order of the Library Committee, on sufficient cause shown.

XVII. No books or papers not belonging to the University shall be stored within the Library Building, without the special permission of the Library Committee.

XVIII. The use of matches or open lights, in any part of the Library Building, is strictly prohibited.

XIX. No persons except the Library Staff, not being actual or former members of the Senatus, University Lecturers, members of the University Court or of the Library Committee, or persons having permission under Regulation XIV., are allowed to enter or remain in any part of the Library Building beyond the counter, except in the company of the Librarian or an Assistant-Librarian; unless by special permission of the Library Committee, or (in urgent cases) of the Librarian and two members of the Committee, subject to the approval of the Committee at their next meeting.

XX. The Librarian shall report to the Library Committee, as

soon as possible, all cases in which a book has been mutilated, disfigured by writing, or otherwise injured while in the possession of readers ; and offenders may be required to replace the injured book, or may be fined to an amount not exceeding the value of the book, or deprived of the privilege of using the Library, at the discretion of the Committee.

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*N.B.*—The word “book,” in the foregoing regulations, is to be taken as including manuscripts, pamphlets, bound or unbound periodicals, and other written or printed matter being the property of the University Library.

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## READING ROOMS.

### I. OLD BUILDINGS.

A separate collection of books is set apart for the use of Students.

Those wishing to consult books must insert in one of the slips provided for the purpose their Matriculation Number, Name and Residence, and the title of the Book, and present the slip to the Librarian in attendance.

Each slip will render the person who has signed it responsible for the book named. The counterfoil of the slip should, therefore, be reclaimed from the Librarian when the Book is returned, or whenever the Book applied for is not available.

Every volume must be returned by the borrower before leaving the Reading Room. Students are forbidden to leave the Books on the table ; they are required to hand them to the Librarian, and to get back the counterfoils. To prevent confusion, this should be done a few minutes before the close of each hour by those about to attend classes.

Besides the books in the Reading Room, each Student may consult in the Reading Room Two Volumes daily from the General Library : Provided he has handed in slips applying for them on the previous day, before 2 P.M. To such books the same rules will apply as to those consulted from the Reading Room.

No conversation or noise is permitted in the Reading Room.

The Librarian is responsible for the management of the Reading Room. Any difficulty that may arise must be referred to him, or, if necessary, through him to the Library Committee.

Students, on first applying for books in the Reading Room, must exhibit their Matriculation Tickets.

All books taken into the Reading-Room from the General Library shall be examined and returned to their place in the General Library each day. No books shall be issued from the General Library, for use in the Reading-Room, after 3.20 in Winter or 2.30 in Summer; and all books from the General Library shall be given up in the Reading-Room at 3.45 in Winter and 2.45 in Summer.

The Reading-Room is available for either men or women Students. It is open daily, holidays excepted, during the Winter Session from 10 to 4 and from 8 to 10 P.M.; Saturdays 10 to 1; and during the Summer Session from 10 to 3; Saturdays 10 to 1.

A Special Reading-Room is set apart for women students.

## II. NEW BUILDINGS.

In the New Buildings is a Students' Reading-Room containing Books of Reference for those attending the Classes in the Faculty of Medicine. The Regulations as to consulting Books are similar to those in the Reading-Room in the Old Buildings. It is open daily, during Sessions, from 9 A.M. to 5, and 8 to 10 P.M.; Saturdays, 9 A.M. to 12. It is open in September and during the week in which the Spring Holiday occurs (Saturday excepted) from 10 A.M. to 1. It is closed during August and the Christmas vacation, and on holidays.

## THEOLOGICAL LIBRARY.

This Library, founded in 1698 for Students in Theology, contains above 10,000 volumes. The management is vested in six Curators, chosen by ballot by the "Cives" of the Library from their own number. Students of Divinity of this or other Scottish University are admitted as Cives on paying: the former, two shillings and sixpence; the latter, five shillings, per annum. No one who, when a Student of Divinity in this University, failed to enter as a Civis, may afterwards do so

until he has paid up the arrears of two shillings and sixpence for each year of his Theological Course in which he failed to pay. No Civis can be elected a Curator unless at least in the second year of his attendance at the Divinity Hall. The election takes place in the second week of December, one-third of the Curators going out annually by rotation. The Curators elect one of their own number to be Treasurer. The Curators and Treasurer report the state of the funds, &c., to the Cives, the Theological Faculty, and the Senatus. The books purchased are selected by the Curators, subject to the approval of the Faculty of Divinity. The Professor of Divinity, who if *ex officio* Honorary Librarian, annually appoints an acting Librarian. Books may not be kept out of the Library longer than two months.

#### SELLAR AND GOODHART CLASSICAL LIBRARY.

This Library was instituted by private subscription in October 1897, in memory of Professors Sellar and Goodhart. It is used as a reading-room and library of reference for Students reading for Honours in Classics. It contains nearly 1000 volumes, and is managed by a Committee consisting of the Professors of Greek and Latin, the Assistants to the Professors, and five representatives elected by the Members.

Subscription for year, 6s.; for Winter Session, 5s.; for Summer Session, 3s.

#### HONOURS PHILOSOPHICAL LIBRARY.

This Library was instituted by private subscription in January 1897, along with libraries in connection with the ordinary classes of Logic and Moral Philosophy. It is used both as a Lending Library and as a Library of Reference and is placed in a room adjoining the Moral Philosophy Classroom which is used as a reading-room for Honours Students. It is managed by a Committee consisting of the Professors of Logic and Moral Philosophy, the Assistants to the Professors, and two representatives elected by the Honours Classes.

Subscription for year, 5s.; for Winter or Summer Session, 3s.

### HISTORY LIBRARY.

This Library, founded by Professor Kirkpatrick in 1891, and greatly extended by a donation of £100 from the late Professor Tiele of Leyden, Gifford Lecturer in 1896-98, is open to Students in both the Ordinary and the Honours Classes in General and Constitutional History and Political Science. It is used mainly as a Library of Reference and a Reading-room, and is superintended by the Assistant in History.

### PHYSIOLOGY LIBRARY.

The late William Rutherford, M.D., Professor of Physiology or the Institutes of Medicine in the University from 1874 to 1899, bequeathed to the Senatus Academicus all his books and periodicals relating to Physiology and allied subjects, on condition that they should be deposited in the Physiological department of the University in charge of the Professor of Physiology.

It is proposed to continue the periodicals and to add to the Library by donation or otherwise as opportunity may occur. The books have been placed in a suitable room in the department of Physiology, which is used as a Library of Reference and Reading-Room for those who are engaged in Research work in Physiology: and the books may be consulted at any time on application to the Professor or to one of the assistants in the department who have special charge of the Library.

### ASTRONOMY LIBRARY.

A sum of about £300 was subscribed in order to perpetuate the memory of the late Mr Andrew J. Ramsay, for the formation and endowment of a Library in the Royal Observatory for the use of Students attending the class of Astronomy.

### HONOURS MODERN LANGUAGES LIBRARY AND READING-ROOM.

The French section of this Library was founded in 1900 by private subscriptions. For the German section a sum of £500 was given by Miss T. S. S. Gibson in 1901. The Reading-

Room, furnished partly from private subscriptions, was opened in November 1901. The Library and Reading-Room are under the management of the Lecturers in Modern Languages and the Librarians appointed by them. Subscription for year, 6s. ; for Winter Session, 5s. ; for Summer Session, 3s.

### MUSIC LIBRARY.

This Library of music and books on music owes its existence to bequests, donations, and especially the Reid Fund. Professor John Thomson, Théophile Bucher, and the Scottish Musical Society may be mentioned as, next to General Reid, the chief benefactors. It is used as a Reference Library and Reading-Room, its management being in the hands of the Professor of Music.

PORTRAITS AND BUSTS IN THE SENATE HALL, LIBRARY, COURT ROOM, ANATOMICAL MUSEUM, MUSIC CLASS ROOM, AND DOME.<sup>1</sup>

#### I. PORTRAITS.

There are twenty-seven Portraits of Benefactors, Principals, Professors, and others, by Raeburn, Sir John Watson Gordon, and other Artists, in the Senate Hall, four in the Library, sixteen in the University Court Room, and one in the Music Class Room.

#### *Portraits presented since 1890.*

##### In Senate Hall.

James Lorimer, M.A., LL.D., Dr Jur., Professor of Public Law (1862-1890).

Joseph Black, M.D., Professor of Chemistry and Medicine (1766-1795).

Lord Playfair, Professor of Chemistry (1858-1869), by Pickersgill, R.A.

##### In Court Room.

General Sir Joseph Straton, Benefactor of the University.

John Wyllie, C.B., M.D., Physician General, Madras Army.

Miss Eleanor A. Ormerod, LL.D., formerly Examiner in Agricultural Entomology.

<sup>1</sup> There is a separate printed Catalogue of the Portraits and Busts in the University, and of the Torrie Collection. A detailed Catalogue will also be found in the Calendar for 1890-91, p. 61. as well as in the previous Calendars.

In Midwifery Retiring-Room.

Sir James Young Simpson, Bart., M.D., D.C.L., Professor of Midwifery (1840-1870), by Sir John Watson Gordon.

II. BUSTS.

There are forty Busts in the Upper Library Hall, two in the Anatomical Museum, and one in Room in Dome.

In order to honour and perpetuate the names of Benefactors who have founded Scholarships, Bursaries, or new Chairs in the University, the University authorities have made arrangements for placing their Busts or Portraits in the Library and University Court Room.

Regarding as Benefactors the eminent Professors who have elevated the character of the University by their writings or discoveries, the University desires to procure Portraits or Busts of James and David Gregory, Colin Maclaurin, Matthew Stewart, Dr Cullen, Dr James Gregory, Dr Alison, Sir Chas. Bell, Lord Woodhouselee, Dr Thos. Chas. Hope, Professors Ross, Macdougall, Muirhead, Sellar, Campbell Fraser, and Sir Thomas Grainger Stewart.

*Busts presented since 1890.*

In Library Hall.

Rt. Hon. John Inglis, D.C.L., LL.D., Lord Justice-General, Chancellor of the University (1868-1891).

John Rae, M.D., LL.D., Arctic Explorer.

James Miller, M.D., LL.D., &c., Professor of Surgery in the University (1842-64).

John Goodsir, F.R.S., Professor of Anatomy in the University (1846-1867).

David Masson, M.A., LL.D., Professor of Rhetoric and English Literature (1865-95).

Sir Douglas Maclagan, M.D., LL.D., Professor of Medical Jurisprudence (1862-1897), by John Hutchison, R.S.A.

In Students' Reading Room.

Thomas Carlyle, Rector of the University (1865-1868).

Lord Brougham, by Christopher Moore, presented by Lady Denman.

In Physiology Class-Room.

William Rutherford, M.D., F.R.S., F.R.S.E., Professor of Physiology in the University (1874-1899).

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Thomas Chalmers, D.D., Professor of Divinity (1828-1843), by Sir John Steele, R.S.A. (subject to liferent of Miss Chalmers).



## TORRIE FINE ART COLLECTION.

Sir James Erskine of Torrie, by a Will, dated April 1834, bequeathed to the University his Pictures, Bronzes, and Marbles, "for the purpose of laying a foundation for a GALLERY for the encouragement of the Fine Arts." The collection is at present temporarily deposited in the National Gallery until funds can be obtained for its suitable display in the College, and for carrying more fully into effect the intentions of the testator.

The Pictures, forty-five in number, include choice specimens of the works of different Masters, especially in the Flemish and Dutch Schools. The Marbles, seventeen in number, and twenty-three Bronzes, have been chosen with a correct appreciation of the merits of this department, and the whole collection reflects credit on the taste and public spirit of Sir James Erskine.

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## Museums.

A MUSEUM COMMITTEE, consisting of three members, not being members of the Senatus, appointed by the University Court, and of six appointed by the Senatus, is charged with the superintendence of all Museums belonging to the University, and of any collections, furniture, or apparatus, or objects acquired for the use of the University or of any class therein. The members are appointed by the University Court and Senatus respectively at their first meeting in the Winter Session of each year.

*Members of Committee appointed by the University Court.*

Sir James Alexander Russell, M.A., M.B., C.M., B.Sc. ; Patrick Heron Watson, M.D. ; Joseph Bell, M.D.

*Appointed by the Senatus Academicus.*

Professors Geikie (*Convener*), Sir William Turner, K.C.B., Fraser, Greenfield, Schäfer, MacGregor.

Of the following Museums several belong partly or wholly to the Professors of the respective subjects :—

1. NATURAL PHILOSOPHY MUSEUM. A large and very valuable collection of physical apparatus.

2. MUSIC AND MUSICAL INSTRUMENTS.—A very interesting and valuable collection of acoustic and musical instruments.

3. GEOLOGICAL MUSEUM.—For class purposes, showing the characters of minerals and rocks, and the typical fossils of the different geological systems.

4. FINE ART MUSEUM.—A small collection of casts, photographs, and drawings, in the Dome above the portal, illustrating the main points in the history of classical art.

5. MUSEUM OF THE ROYAL BOTANIC GARDEN. — This Museum is open to Students.

6. PHYSIOLOGICAL MUSEUM.—A large collection of Physiological Instruments, Microscopes and Microscopical Appliances, Diagrams, and Preparations.

7. PRACTICE OF PHYSIC MUSEUM.—Pathological specimens, drawings, models, diagrams, etc.

8. ANATOMICAL MUSEUM.—Founded in 1800 by Dr Monro, *secundus*, who presented his own Anatomical Collection, and that of his father, to the University, “to be used by his successors for the purpose of demonstrating and explaining to the Students the structure, physiology, and diseases of the human body.” In 1859, Sir David Monro, M.D., presented a collection of anatomical preparations, formed by his father, Dr Alexander Monro, *tertius*. Numerous additions were also made by Professor Goodsir, especially in the department of Comparative Anatomy, on whose death the Senatus purchased his Private Museum, and added it to the Collection. The Museum now contains several thousand specimens in illustration of Human Anatomy, both normal and pathological, and of Comparative Anatomy.

The Conservator will gratefully receive contributions of rare and interesting specimens from Graduates and former Students. He is especially desirous of making the collection thoroughly representative of the osteology of the different Races of Men.

The Collection was transferred in 1884-5 to the University New Buildings in Teviot Place, where it is arranged in a large and handsome Hall with two galleries. It is open at certain hours to all matriculated students. The pathological collection occupies the upper gallery. The spirit-preparations in illustration of normal Human and Comparative Anatomy are arranged in the lower gallery. The osteological collection is disposed in the cases on the floor, and suspended in the centre of the Hall.

In 1887 the Henderson Trustees committed to the custody of the Conservator their valuable collection of crania and casts.

Conservator of the Museum, the Professor of Anatomy ; Assistant-Conservator, Mr Alexander M. Osler.

9. CHEMISTRY MUSEUM.—Professor Playfair, afterwards Lord Playfair, on his resignation of the Chair of Chemistry, presented to the University the chemical substances he had used in illustrating his lectures. The collection has been increased by gifts from chemical manufacturers and others, and by substances prepared in the University Laboratory.

10. THE OBSTETRICAL MUSEUM, besides a few preparations left by Professor Hamilton, contains instruments, preparations, models, and diagrams, collected by Sir James Y. Simpson, and added to by the present Professor of Midwifery, to whom they belong.

11. THE MUSEUM OF NATURAL HISTORY.—The old Museum, established in 1812 in the University, contained Zoological, Geological, and Mineralogical Collections, formed chiefly by Professor Jameson, for fifty years Professor of Natural History and Regius Keeper of the Museum. In 1854 it was transferred by the Town Council, then the Patrons of the University, to Government, and removed to the Natural History Department of the New Museum of Science and Art, where it is still accessible to Students of Natural History and Geology.

A Zoological Museum is now being formed in the University. Graduates and others interested will greatly aid in this important undertaking by presenting specimens to the Keeper—the Professor of Natural History.

12. MATERIA MEDICA MUSEUM.—One of the most complete collections of medicinal and food substances in this country, founded by Professor Andrew Duncan. His successor, Sir Robert Christison, added many valuable specimens, mounted for the most part by himself with singular neatness. The present Professor has made extensive additions. The Museum has been greatly enriched by interesting donations from former members of the Class in all parts of the world. There is also a Students' Reading Museum, containing specimens of the medicinal substances used in this country, formed and arranged by the present Professor.

13. SURGICAL MUSEUM.—This collection, formed by Professor Spence, has been largely extended by the present Pro-

fessor, to whom it belongs. Many additions have been made, both of pathological preparations and of plaster and gelatine casts, illustrative of Surgical Anatomy and Pathology. A complete catalogue may, on application, be consulted by practitioners of medicine.

### ROYAL BOTANIC GARDEN AND ARBORETUM.

The Royal Botanic Garden, Inverleith Row, is connected with the University, in so far as the Professor of Botany delivers his Lectures in the Hall in the Garden.

The Garden is open daily. Specimens of plants for study are supplied to Students so far as practicable.

The Botanical Museum in the Garden is open to Students daily, and the University Herbarium, which is placed in the Garden, may be consulted between 10 and 1, and 2 and 5, under the direction of the Professor or the Curator.

The Botanical Laboratory in the Garden is open daily for work and original research.

### MILLPORT MARINE STATION.

This marine station, in which a table has been rented by the University, is open from April to October. Applications for the use of the table should be sent to the Dean of the Faculty of Science. Each applicant should indicate for what period he desires to occupy the table and the nature of the work he proposes to undertake.

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# Faculty of Arts.

Dean.—PROFESSOR CHRYSAL, LL.D.

*Students who do not intend to graduate in Arts may attend any of the Classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their Classes to count for Graduation must pass the Preliminary Examination. The Classes in the Faculty are open to Women, except a few in which provision has not yet been made for teaching them. Provision has, however, been made to admit Women to Graduation in Arts who have received the requisite instruction at the Medical College for Women, Chambers Street, Edinburgh, or from Lecturers specially recognised for that purpose, in the subjects in which classes are not open to them in the University.*

*The classes will be opened as follows, and will meet daily (Saturdays excepted), unless otherwise stated. They will meet for the last time before the Christmas vacation on Friday, 19th December 1902; will re-assemble on Tuesday, 6th January 1903, and will be closed on Friday, 27th March 1903. Courses in the Faculties of Law, and of Medicine, which qualify for Graduation in Arts, close on 20th March.*

*The Class Fees are collected by the Factor. For the purpose of receiving Fees he will attend at the University for a short period at the beginning of the Winter and Summer Sessions, and Fees not then paid will be taken at his office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for same drawn in favour of The Collector of Class Fees, Edinburgh University.*

*See as to payment of Class Fees by the Carnegie Trust, page 157.*

*The Annual Graduation Ceremonial in Arts, &c., will be held on Saturday, 11th April 1903.*

## Programme of Classes.

### WINTER SESSION, 1902-1903.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>		
I.—DEPARTMENT OF LANGUAGE AND LITERATURE.					
Junior Latin.....	14 Oct., 9 o'cl. }	Prof. Hardie	{	£	s.
Senior Latin <sup>2 3</sup> .....	14 Oct., 10 „ }			3	3
Honours Latin.....	16 Oct., 12 „ }			3	3

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.

<sup>2</sup> Students who wish to take the Classes of Senior Latin, Senior Greek, French or German as qualifying for Graduation in Arts, must have previously passed in Latin (Higher Standard), Greek (Higher Standard), French or German respectively, either as part of their Preliminary Examination or in addition thereto.

<sup>3</sup> This Course may be divided into two Half-Courses. Fee for each, £2, 2s.

## WINTER SESSION, 1902-1903—continued.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
I.—DEPARTMENT OF LANGUAGE AND LITERATURE—cont. £ s.			
Junior Greek.....		<i>Discontinued</i>	
Senior Greek <sup>23</sup> .....	14 Oct., 11 o'cl.	Prof. Butcher	{ 3 3
Honours Greek .....	16 Oct., 10 „		
Ancient History (Honours Half- Course)	16 Oct., 11 „	H. J. Cunning- ham, M.A.	{ 2 2
Classical Archaeology (Honours Course) <i>Mon., Wed., Fri.</i>	15 Oct., 5 „		
English .....	14 Oct., 4 „	Prof. Baldwin Brown.....	{ 3 3
English Literature (Honours Course) <sup>3</sup>	15 Oct., 2 „		
English Language (Honours Course) <sup>3</sup>	7 Jan., 2 „	Prof. Saintsbury	{ 3 3
French (Pass) <sup>2</sup> .....	17 Oct., 3 „		
French (Honours)..	9 Jan., 3 „	G. Gregory Smith, M.A.	{ 3 3
Italian <sup>4</sup> .....	14 Oct., 3 „		
German (Pass) <sup>2</sup> .....	15 Oct., 4 „	Charles Sarolea, Ph.D., D.Litt.	{ 3 3
German Prose Com- position ( <i>Wed.</i> ) <sup>67</sup> ...	15 Oct., 5 „		
German <sup>68</sup> Lit. ( <i>Fri.</i> )...	14 Oct., 4 „	Otto Schlapp, Ph.D.	{ 3 3 <sup>5</sup>
German (Honours) <sup>8</sup> ...	15 Oct., 4 „		
German Adv. Prose Comp. ( <i>Wed.</i> ) <sup>68</sup> .....	15 Oct., 3 „		
			{ 1 1 <sup>5</sup>
			{ 1 1 <sup>5</sup>
			{ 3 3
			{ 1 1 <sup>5</sup>

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> See Footnote 2, page 60.<sup>3</sup> This Course may be divided into two Half-Courses. Fee for each, £2. 2s.<sup>4</sup> An Honours Course may be given by Dr Sarolea.<sup>5</sup> Five Shillings University entrance fee for Non-Matriculated Students. Payment of this fee does not entitle a Student to a Class Certificate nor confer any other University privilege.<sup>6</sup> Twenty Lectures may be taken as separate course.<sup>7</sup> Students must be at least 18 years of age.<sup>8</sup> Lectures given in German.

## WINTER SESSION, 1902-1903—continued.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
I.—DEPARTMENT OF LANGUAGE AND LITERATURE— <i>cont.</i> £ s.			
Sanskrit (Junior Class),	15 Oct., 3 o'cl.	Prof. Eggeling	{ 3 3
Do. (Senior Class) <sup>2</sup>	15 Oct., 4 „		
Hebrew (Junior Class)	14 Oct., 1 „		
Do. (Senior Class) <sup>2</sup>	14 Oct., 2 „		
Arabic <sup>2 3</sup> ( <i>Mon.,</i> <i>Wed., &amp; Fri.</i> )....	15 Oct., 3 „	Prof. Kennedy..	{ 3 3
Syriac <sup>2</sup> ( <i>Tues. &amp;</i> <i>Thurs.</i> ).....	16 Oct., 3 „		
Celtic <sup>2</sup> .....	14 Oct., 4 „	Prof. Mackinnon..	{ 2 2 <sup>6</sup>
Do. Advanced	20 Oct., 3 „		
Gaelic Class .....	21 Oct., 3 „		
II.—DEPARTMENT OF MENTAL PHILOSOPHY.			
Logic & Psychology.	14 Oct., 1 o'cl.	Prof. A. S. Pringle	{ 3 3
Metaphysics and Hist. of Philosophy (Honours Class)...	21 Oct., 3 „		
Moral Philosophy.....	14 Oct., 2 „	Prof. James Seth	{ 3 3 <sup>6</sup>
Do. Honours Class...	20 Oct., 4 „		
Political Economy	14 Oct., 9 „	Prof. Nicholson...	{ 3 3 <sup>7</sup>
Do. Honours Course <i>Mon. Tu. &amp; Thurs.</i>	16 Oct., 11 „		
Education (Theory, History, & Art of)	14 Oct., 12.10.,	Prof. Laurie.....	3 3
Philosophy of Law <sup>4</sup> (45 Class Meetings)	14 Oct., 2 „	Prof. Sir Ludovic Grant, Bart...}	2 2
Natural Theology (Gifford Lecture- ship).....	Dates will be after- wards announced.	... ..	Free.

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> Students who wish to take the Classes of Sanskrit, Hebrew, Arabic, Syriac, or Celtic as qualifying for the M.A. Degree, must have previously passed a Preliminary Examination in these languages as nearly as possible equivalent in standard to the Examinations in Latin and Greek in the Preliminary Examination.<sup>3</sup> Half-Course qualifying for M.A. degree.<sup>4</sup> Half-Course.<sup>5</sup> See footnote 5, page 61.<sup>6</sup> When taken as a Graduation Course, £3, 3s.<sup>7</sup> Or two Half-Courses, £2, 2s. each.



## WINTER SESSION, 1902-1903—continued.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
III.—DEPARTMENT OF SCIENCE.			£ s.
Junior Mathematics	14 Oct., 12 o'cl.	Prof. Chrystal...	3 3
Senior Mathematics <sup>23</sup>	14 Oct., 9 ,,		3 3
Mathematics, Inter- mediate Honours ( <i>Mon., Wed., Fri.</i> )	15 Oct., 11 ,,		3 3
Do. (Advanced Honours) <i>Mon., Wed., Fri.</i> .....	15 Oct., 10 ,,		3 3
Natural Philosophy <sup>2..</sup>	14 Oct., 11 ,,	Prof. MacGregor	3 3
Do. (Intermediate Honours, <i>Mon., Wed., Fri.</i> .....)	15 Oct., 9 ,,	Prof. MacGregor and Dr Knott	3 3
Do. (Advanced Honours, <i>Mon., Wed., Fri.</i> .....)	15 Oct., 12 ,,		3 3
Applied Mathe- matics, Advanced Science ( <i>Mon., Wed., Fri.</i> .....)	15 Oct., 10 ,,	Dr Knott.....	3 3
Physical Laboratory <sup>4</sup>	22 Oct., 10 ,,	Prof. MacGregor..	...
Astronomy ( <i>Mon., Tues. Wed. Thurs.</i> )	15 Oct., 4 ,,	Prof. Copeland....	3 3
Chemistry .....	14 Oct., 10 ,,	Prof. Crum Brown	4 4
Do. (Adv. Course, ) <i>Tues. Wed. Thurs.</i> )	6 Jan., 4 ,,	Prof. Crum Brown, with Drs Dobbin, Marshall and Taylor.....	2 2
Practical Chemistry...	1 Dec., 11 & 2,,		3 3
Chemical Laboratory <sup>5</sup>	14 Oct., '9.30,,		

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> Students prior to attendance on the Class of Senior Mathematics or of Natural Philosophy as qualifying for Graduation in Arts, must have passed the Intermediate or Higher Standard Examination in Mathematics either as part of their Preliminary Examination or in addition thereto.<sup>3</sup> The first half of the Winter Graduation Course up to Christmas qualifies as a First Half-Course in Mathematics, and the second half, from Christmas to the end of the Session, as a Second Half-Course. Any First Half-Course, along with any Second Half-Course, taken subsequently, qualifies as a full Course of Instruction for Graduation.<sup>4</sup> For fees see footnote 1, p. 69.<sup>5</sup> For fees see footnote 2, p. 69.

WINTER SESSION, 1902-1903—*continued.*

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
III.—DEPARTMENT OF SCIENCE— <i>continued.</i>			£ s.
Zoology <sup>2</sup> (Elementary)	14 Oct., 12 o'cl.	Prof. Ewart.....	4 4
Practical Zoology } (Elementary)..... }	7 Jan. 12 ,, }	Prof. Ewart.... }	2 2 <sup>3</sup>
Advanced Zoological Laboratory..... }	... .. }		...
Morphology of Vertebrates (with Lab.)	15 Oct., 2 ,,	J. Beard, D.Sc...	3 3
Botany (Advanced) } Practical Botany } (Advanced) .....	14 Oct., 11 ,, } 15 Oct., 11 ,, }	Prof. Balfour.. }	2 2 <sup>4</sup> 3 3 <sup>4</sup>
Geology <sup>7</sup> .....	14 Oct., 4 ,,	Prof. Geikie.....	4 4
IV.—DEPARTMENT OF HISTORY AND LAW.			
History (Honours : British Constitl., 1360-1563) ( <i>Mon., Tu., Th.</i> ).....	14 Oct., 4 o'cl. {	Prof. Kirkpatrick..... }	3 3
History, British.....	14 Oct., 11 ,, }		3 3
History (Honours Course, History of Europe, 1715- 1815).....	15 Oct., 10 ,, }	Prof. Lodge.... }	3 3
Ancient (Scottish) History (Honours Course) ( <i>Mon., Wed., Fri.</i> ).....	15 Oct., 4 ,, }		3 3 <sup>5 6</sup>
Palæography ( <i>Tu., Th.</i> ).....	14 Oct., 4 ,, }	Prof. Hume Brown..... }	2 2 <sup>5 6</sup>

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> With Practical Zoology, a full Course, but the whole Course must extend over at least seventy-five separate days. Any student whose attendance on the Elementary Course of Lectures and the Elementary Practical Class of Botany or Zoology does not entitle him to a full Certificate for Graduation in Arts, may make up the seventy-five attendances required on separate days, by attending twenty-five Lectures of any other Course in the Botanical or Zoological Department, as the case may be, without additional fee. A Full Course in Zoology is given in Winter but not in Summer. The Botany Lecture Course (held only in Summer) may be supplemented by a Vacation Course of twenty-five Meetings.<sup>3</sup> Besides charge of 10s. for Laboratory Expenses.<sup>4</sup> Besides Garden fee of 5s.<sup>5</sup> Fee for both Courses if taken in one Session, £4, 4.<sup>6</sup> See note 5, page 61.<sup>7</sup> Course after Christmas is a Graduation Half-Course. Fee £2, 2s.

## WINTER SESSION, 1902-1903—continued.

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees. <sup>1</sup>
IV.—DEPARTMENT OF HISTORY AND LAW—continued.			
Constitutional Law and History <sup>2</sup> .....	14 Oct., 5 o'cl.	Prof. Kirkpatrick	£ s. 4 4
Roman Law.....	14 Oct., 4 „	Prof. Mackintosh.....	4 4 <sup>3</sup>
History of Roman Law (44 Class Meetings) <sup>4</sup> .....	... ..		2 2
Ecclesiastical History	14 Oct., 11 „	Prof. Taylor.....	3 3
Archæology and Art (History of).....	14 Oct., 3 „	Prof. Baldwin Brown.....	3 3
Classical Archæology (Honours Course, Mon., Wed., Fri.)	15 Oct., 5 „		3 3
History in Monuments (Honours Course, Tues. & Thurs.).....	14 Oct., 5 „		3 3 <sup>5</sup>
Public International Law (45 Class Meetings) <sup>4</sup> .....	6 Jan., 2 „	Prof. Sir Ludovic J. Grant, Bart. ....	2 2 <sup>7</sup>
Political Science Honours Graduation Half - Course (Mon., Wed., Fri.)	12 Jan., 12 „	D. P. Heatley..	2 2
British Statesmen of Eighteenth Century <sup>6</sup> (Mon. & Thurs.).....	20 Oct., 12 „		1 1 <sup>5</sup>

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> Qualifying both for Arts Graduation (as "History," under the Arts Ordinance, Sect. VII., 2 (b), or as an optional or additional subject) and for Law Graduation. Two Half-Courses.<sup>3</sup> Fee for Winter Session. For Winter and Summer, £5, 5s.<sup>4</sup> Half-Course.<sup>5</sup> Five Shillings entrance fee for non-matriculated students. See footnote 5, p. 61.<sup>6</sup> Mackay Lectures. Free to members of the History Classes.<sup>7</sup> Fee for whole Course (Winter and Summer), £3, 3s.

## SUMMER SESSION, 1903.

The Classes will be opened as follows, and will be closed on Wednesday, 16th July.

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees. <sup>1</sup>
I. DEPARTMENT OF LANGUAGE AND LITERATURE. £ s.			
Senior Latin (Graduation Half-Course) <sup>2 3</sup>	1 May, 9 o'cl.	James Mill, M.A.	{ 2 2
Honours Latin (Graduation Half-Course)	1 May, 10 „		{ 2 2
Senior Greek (Graduation Half-Course) <sup>2 3</sup>	1 May, 10 „	Alexander W. Mair, M.A.	{ 2 2
Honours Greek (Graduation Half-Course)	1 May, 9 „		{ 2 2
Ancient History.....	5 May, 11 „	{ H. J. Cunningham, M.A.	} 2 2
English Literature (Honours Graduation Half-Course, <i>Mon., Wed., Fri.</i> )	1 May, 12 „	{ G. Gregory Smith, M.A.	} 2 2
Sanskrit <sup>4</sup> .....	1 May, 3 „	Prof. Eggeling....	3 3
II. DEPARTMENT OF MENTAL PHILOSOPHY.			
Ancient Philosophy (Honours Graduation Half - Course, <i>Mon., Wed., Fri.</i> )	1 May, 11 o'cl.	R. P. Hardie, M.A.	{ 2 2
Psychology (Honours Gradn. Half-Course, <i>(Mon., Wed., Fri.)...</i> )	1 May, 12 „		{ 2 2
Political Philosophy, <sup>5</sup> (Honours Graduation Half-Course)..... <i>(Mon., Wed., Fri.)...</i>	1 May, 11 „	Henry Barker, M.A.	{ 2 2
Economic History (Modern) <sup>4 6</sup> <i>(Tu., Th.)</i>	5 May, 12 „	A. B. Clark, M.A.	1 1

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.

<sup>2</sup> See footnote 2, page 60.

<sup>3</sup> The full course may be completed by attendance either for another Summer Session or for half a Winter Session.

<sup>4</sup> Class for Indian Civil Service Probationers.

<sup>5</sup> Honours Graduation Half-Course in Philosophy and also in Economic Science.

<sup>6</sup> Non-Graduation Course of twenty Lectures.

## SUMMER SESSION, 1903—continued.

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees. <sup>1</sup>
III. DEPARTMENT OF SCIENCE.			£ s.
Senior Mathematics (First Graduation Half-Course) <sup>2</sup> .....	1 May, 11 o'cl.	Chas. Tweedie, M.A., B.Sc.	2 2
Senior Mathematics (Second Graduation Half-Course) <sup>2</sup> .....	1 May, 12 „		2 2
Honours Mathematics (Gradn. Half-Course)	1 May, 10 „		2 2
Physical Laboratory <sup>3</sup> ....	1 May, 10 „	Prof. MacGregor	...
Physics ( <i>mainly for</i> <i>Students of Medicine</i> )	1 May, 2 „		3 3
Applied Mathematics...	1 May, 9 „	C. G. Knott, D.Sc.	2 2
Wave Theory (Gradn. Half-Course) .....	1 May, 9 „	W. Peddie, D.Sc.	2 2
Adv. Exp. Physics.....	1 May, 10 „	W. Peddie, D.Sc.	2 2
Practical Chemistry .....	1 May, 2 „	Professor Crum Brown and Assistant.	3 3
Chemistry (Organic).....	1 May, 1 „		2 2
Chemical Laboratory <sup>9</sup> ...	14 Oct. 9.30 „	Prof. Ewart.....	4 4
Zoology (Elementary) <sup>8</sup> ...	1 May, 12 „		2 2 <sup>5</sup>
Do. (Elem. Pract.).....	1 May, <sup>4</sup> „	J. H. Ashworth, D.Sc.	2 2
Invertebrate Zoology..	1 May, 2 „		3 3 <sup>5</sup>
Do. (with Lab. work)			
Advanced Zoology (Comp. Morphol. of Invertebrata and Adv. Lab. Course)..	1 May, <sup>4</sup> 2 „	Prof. Ewart .....	3 3 <sup>5</sup>
Natural History Labor.			6 6 <sup>5</sup>
Botany <sup>6</sup> 8 .....	1 May, 8 „	Prof. Balfour ...	4 4 <sup>7</sup>
Practical Botany .....	1 May, 9 „		2 2 <sup>7</sup>
Field Demonst., Sat...			

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> See footnotes 2 and 3, page 63.<sup>3</sup> For fees, see footnote 1, page 69.<sup>4</sup> At hours to be arranged.<sup>5</sup> Besides charge of 10s. for Laboratory expenses.<sup>6</sup> With Practical Botany a full Course, but the whole Course must extend over 75 separate days. See footnote 2, page 64.<sup>7</sup> Besides Garden Fee of 5s.<sup>8</sup> See footnote 2, page 64.<sup>9</sup> For fees, see footnote 2, page 69.

SUMMER SESSION, 1903—*continued.*

Classes.	Days and Hours.	Profs. and Lecturers.	Class Fees <sup>1</sup>
III. DEPARTMENT OF SCIENCE— <i>continued.</i>			£ s.
Geology (Graduation Half-Course, <i>Mon., Wed., Fri.</i> ).....	4 May, 4 o'clock.	Prof. Geikie.....	3 3
Field Demonstrations on Saturdays			
IV. DEPARTMENT OF HISTORY AND LAW.			
Roman Law (continuation of Winter Course).....	13 May, 9 o'clock.	Prof. Mackintosh	2 2 <sup>5</sup>
Brit. Hist. (Gen. and Const.) 1066-1832, Non-Gradn. Course	4 May, 9 „	D. P. Heatley...	2 2 <sup>2</sup>
Political Science (Honours Graduation Half-Course, <i>Mon., Wed., Fri.</i> )	4 May, 10 „		
Ancient (Greek) History (Honours Half-Course).....	5 May, 11 „	H. J. Cunningham, M.A.	2 2

## TUTORIAL CLASSES.

Classes.	Days and Hours.	University Assistants.	Class Fees <sup>1</sup>
Junior Latin .....	Discontinued		£ s. d.
Junior Greek.....			
Logic (Preliminary Class, <i>Mon., Tues., and Thurs.</i> ).....	5 May, 12	R. P. Hardie, M.A.	1 1 0
Elementary Hebrew <sup>4</sup> ...	1 May, 10	Richard Bell, M.A., B.D.....	1 11 6
Elementary Arabic.. ...	1 May, 11		2 2 0

<sup>1</sup> Fees for second, third, and subsequent attendances, see page 69.<sup>2</sup> Five shillings University entrance fee for non-matriculated students. See footnote 5, page 61.<sup>3</sup> See footnote 7, p. 65.<sup>4</sup> To prepare Students for entering the Junior Class in Winter Session.<sup>5</sup> As separate Course.

## FEEES FOR SECOND, THIRD, AND SUBSEQUENT ATTENDANCES.

1. *Ordinary Graduation Classes*:—(1) Second attendances on £4, 4s. Courses, £3, 3s.; third or subsequent attendances, £1, 1s. (2) Second attendances on £3, 3s. Courses, £2, 2s.; third or subsequent attendances, £1, 1s. (3) Ordinary Celtic Class, if not taken for Graduation, £2, 2s.; second or subsequent attendances, £1, 1s.

2. Second attendances on £2, 2s. Lecture Courses (not being Honours Half-Courses), £1, 11s. 6d.; third or subsequent attendances, £1, 1s.

3. When fee for first attendance is less than £2, 2s., no reduction for second or subsequent attendances.

4. *Honours Courses*:—(1.) *Full Honours*, £3, 3s. Courses—Second attendances, no reduction; third or subsequent attendances, £2, 2s. (2.) *Half-Honours* £2, 2s. Courses—Second attendances, no reduction; third or subsequent attendances, £1, 1s.

5. No reduction for Laboratory or Practical Courses.

MATRICULATION, &c. See pages 27-29.

FIVE SHILLINGS UNIVERSITY ENTRANCE FEE. See pp. 29 and 30.

## LABORATORIES.

The following means are afforded for Practical Instruction:—

THE PHYSICAL LABORATORY,<sup>1</sup> established with the view of affording Students a practical knowledge of the construction and use of physical apparatus, and the mode of conducting experimental inquiries, is open daily from 10 to 3, under the superintendence of the Professor.

The ROYAL OBSERVATORY is open to Students of Astronomy on Friday evenings from 7.30 P.M.

For the CHEMICAL LABORATORIES, ZOOLOGICAL LABORATORIES, ROYAL BOTANIC GARDEN LABORATORY, GEOLOGICAL AND PETROLOGICAL LABORATORIES, see Faculty of Science.

MUSEUMS. See pages 56-59.

<sup>1</sup> Fees:—Three Months' Course of two hours a day, £2, 2s.; Whole Academic Year, two hours a day, £4, 4s.; Whole Academic Year for the hours during which the Laboratory is daily open, £6, 6s.



# Courses of Lectures.<sup>1</sup>

1902-1903.

## I.—DEPARTMENT OF LANGUAGE AND LITERATURE.

### HUMANITY—(Latin).

PROFESSOR HARDIE.

*Junior Class*—Taught by the Assistant, under supervision of the Professor: 9 to 10, five days a week. The work of the Class consists of—

1. Readings of some Latin author, such as Virgil, Horace, Ovid, or Tibullus, Livy, Sallust, and Cicero.
2. Lectures on Roman History or Literature.
3. Exercises in Latin Prose Composition.
4. Translation of passages from Latin into English, and from English into Latin "at sight."
5. Written Examinations.

*Books recommended.*—Bradley's Arnold's Latin Prose. Allen's Second Latin Exercise Book. Pelham's or How and Leigh's Roman History. Wilkins' Primer of Roman Literature. Wilkins' Primer of Roman Antiquities.

During the Winter Session 1902-1903 the following books will be read:—Livy, Bk. XXXVIII.; Ovid, *Metamorphoses*, XIII.; *Fasti*, IV.

*Senior Class*—10 to 11, five days a week.

This is the class which qualifies for the ordinary Degree of M.A.<sup>2</sup> The work of the Class consists of—

1. Readings of some Latin author, such as Virgil, Horace, Cicero, Tacitus.
2. Lectures on Roman History or Literature.
3. Weekly Exercises in Latin Prose.

<sup>1</sup> The annual amount payable for Matriculation, Class Fees, &c., of the regular Course in Arts and Graduation Fee may be estimated at about £10, 10s.

<sup>2</sup> See footnote 2, page 60.

4. Translation of Unseen Passages.
5. Written Examinations.
6. Latin Verse Composition (voluntary).

*Books recommended.*—Gildersleeve and Lodge's Latin Grammar ; Lindsay's Historical Latin Grammar ; Potts' Hints towards Latin Prose Composition ; Pelham's Outlines of Roman History ; How and Leigh's History of Rome ; Capes' Early Empire ; Cruttwell's History of Latin Literature ; Mackail's Latin Literature ; Companion to Latin Authors (Middleton and Mills) ; Rich's Dictionary of Antiquities.

During the Winter Session 1902-1903 the following books will be read :—Virgil, *Aen.* VIII. ; Horace, *Odes*, IV. and *Epodes*, Page's Edition ; Cicero, *Philippics*, II.

*Third (Honours) Class—12 to 1.*

The Third (Honours) Latin Class meets four days a week. It is intended to assist the studies of Candidates for Scholarships and Graduation with Honours. The work consists of—

1. Readings and explanations of the more difficult Latin authors, such as Tacitus, Lucretius, Plautus, Martial, &c.
2. Lectures on Roman History and Literature, chiefly in connection with the Books read in the Class.
3. Composition, and Translation of Unseen Passages.
4. Occasional Critical Papers and Essays.
5. Written Examinations on the work done in the Class.

During the Winter Session 1902-1903 the following books will be read :—Ennius and Lucilius (in Merry's *Fragments of Roman Poetry*) ; Quintilian, IX. ; Catullus ; Tacitus, *Annals*, III., IV.

*Summer Session, 1903.*

JAMES MILL, M.A., *Lecturer.*

*Senior Class—9 to 10, five days a week.*

This class qualifies as a half-course for Graduation.<sup>1</sup> The work consists of—

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<sup>1</sup> See footnote 2, page 60.

1. The reading of the Latin authors prescribed for the Degree Examination in October 1903 and April 1904.
2. Lectures on Roman History or Literature.
3. Exercises in Latin Prose Composition.
4. Written Examinations on the work done in the Class.
5. Translation of passages from Latin into English, and from English into Latin "at sight."

The full Course may be completed by attendance either for another Summer Session or for half a Winter Session.

*Third (Honours) Class—10 to 11.*

This Class, in the Summer Session, qualifies as a half-course for Graduation with Honours in Classics. It meets four days a week, and is intended to assist the studies of Candidates for Scholarships, for Graduation with Honours, and for the Indian Civil Service. The work consists of:—

1. Readings and explanations of some of the more difficult Latin authors, such as Tacitus, Lucretius, Plautus, Martial, Juvenal, Lucan, &c.
2. Lectures on Roman History and Literature, chiefly in connection with the Books read in the Class.
3. Exercises in Latin Prose Composition.
4. Written Examinations on work done in the Class, and on subjects prescribed for voluntary reading.

During the Summer Session of 1903, the books read will be selected from the programmes of work for Honours Graduation in April 1904 and April 1905.

GREEK.

PROFESSOR BUTCHER.

*Senior Class—11 to 12, 12 to 1.*

11 to 12, five days a week (Professor).

12 to 1 (optional, no extra fee), five days a week (Lecturer); additional lectures on subjects for Degree.

The Lecturer in Greek will moreover give individual tuition in Composition.

This is the class which qualifies for the ordinary Degree of M.A.<sup>1</sup> The work consists of—

1. Readings of Greek authors, such as Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Herodotus, Thucydides, Plato, Demosthenes.

2. Lectures on Greek Literature, History, or Philosophy.

3. Greek Prose Composition, or Translation of an Unseen Passage once a week, and a Lecture on the passage when the exercises are returned.

4. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.

5. Greek Verse Composition (voluntary).

*Books recommended.*—W. G. Rutherford's Greek Grammar, and First Greek Syntax; Monro's Homeric Grammar; Goodwin's Greek Grammar; Goodwin's Greek Moods and Tenses; Sidgwick's Greek Prose Composition; Jebb's Primer of Greek Literature; Müller and Donaldson's History of Greek Literature; Jevons' History of Greek Literature, or Mahaffy's History of Greek Literature, or Murray's Ancient Greek Literature; Holm's History of Greece (Translation, Macmillan); Bury's History of Greece, or Oman's History of Greece, or Cox's General History of Greece, or W. Smith's Smaller History of Greece (new ed. 1897); Greek Verse Composition (Sidgwick and Morris); A Manual of Comparative Philology, by Giles.

During the Winter Session 1902-1903, the chief work of the Class with the Professor will be :—Plato, *Protagoras*; Aristophanes, *Acharnians*.

### *Third (Honours) Class—10 to 11.*

This Class meets four days a week. It is intended to assist the studies of Candidates for Scholarships and Graduation with Honours. The work consists of—

1. Readings of some of the more difficult Greek authors.

2. Lectures on Greek Literature, History, or Philosophy.

3. Greek Composition, and Translation of Unseen Passages.

4. Occasional Critical Papers and Essays.

<sup>1</sup> See footnote 2, page 60.

## 5. Written Examinations on the work done in Class.

During the Winter Session 1902-1903 the chief work of the Class will be Aristotle, *Ethics*, I.-IV. and X., and Greek Melic Poets.

*Summer Session, 1903.*

ALEXANDER W. MAIR, M.A., *Lecturer.*

*Senior Class—10 to 11, five days a week.*

This Class qualifies as a half-course for Graduation.<sup>1</sup> The work consists of—

1. The reading of the Greek authors prescribed for the Degree Examination in October 1902 and April 1903.
2. Lectures on Greek History or Literature.
3. Greek Prose Composition, and Translation of Unseen Passages.
4. Written Examinations.

The full Course may be completed by attendance either for another Summer Session or for half a Winter Session.

*Third (Honours) Class—9 to 10.*

This Class meets four days a week. It is intended to assist the studies of Candidates for Scholarships, for Graduation with Honours, and for the Indian Civil Service. The work consists of—

1. The reading of books selected from the programme of work for Graduation with Honours in 1904 and 1905, and other books as may be arranged.
2. Lectures on Greek History or Literature.
3. Greek Prose Composition, and Translation of Unseen Passages.
4. Written Examinations.

This Class qualifies as a half-course for Graduation with Honours. The full Course may be completed by attendance either for another Summer Session or for half a Winter Session.

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<sup>1</sup> See footnote 2, page 60.

## CLASSICAL ARCHÆOLOGY.

PROFESSOR BALDWIN BROWN.

Classical Archæology may be taken as one of the optional subjects for Honours in Classics.

An Honours Course of fifty lectures will be delivered in the Winter Session, 1902-1903, in the Fine Art Class Room, on Mondays, Wednesdays, and Fridays, at 5 P.M.

Additional Class-meetings of a tutorial character will be held as often as is found desirable, at hours to be afterwards arranged. The treatment of the subject will embrace—

1. A general survey of the field of study.
2. An examination of the most important monuments of Greek Art and selected passages from ancient authors bearing on the History of the Arts in Classical times.
3. A study of the History of Greek Sculpture from the earliest times to the age of Augustus.

The text-books will be—Overbeck's "*Schriftquellen*" (a collection of passages from ancient authors bearing on Classical Art); Murray's "*Handbook of Greek Archæology*" (London, John Murray); E. Gardner's "*Handbook of Greek Sculpture*" (Macmillan & Co.).

## ANCIENT PHILOSOPHY.

(See Department of Mental Philosophy.)

## ANCIENT HISTORY.

H. J. CUNNINGHAM, M.A., *Lecturer.*

Ancient History may be taken as an optional subject for Honours in Classics, and in and after 1904 for Honours in History. Two honours half courses of 25 lectures each will be given, one in the first half of the Winter Session, the other in Summer. Three lectures weekly.

*Subjects—*

*Winter* 1902. Roman History 44 B.C.-14 A.D. For prescribed books see pp. 145, 146.

*Summer* 1903. The development of the Athenian Con-

stitution, and its working as illustrated by contemporary records. Aristotle's "*Respublica Atheniensium*" will be used as a text book.

## RHETORIC AND ENGLISH LITERATURE.

PROFESSOR SAINTSBURY.

*(Ordinary Course, 4 to 5, five days a week throughout the Winter Session.)*

On Mondays, Wednesdays, and Fridays, the Lectures will be devoted, before Christmas, to a survey of Style both in Poetry and Prose from Chaucer to the Nineteenth Century; after Christmas to a similar survey of the General History and Contents of the Subject from the earliest texts to the present day. There will be Three Class Examinations during the Session, and at convenient intervals between them written Exercises will be done in Class. Two subjects for longer written Essays will also be given, one before, one after Christmas: and there will be Prizes for these Essays, distinct from the general Class Prizes. A certain number of Lectures will be specially devoted to the subject of Rhetoric, the text being De Quincey's Essay, with Campbell's *Philosophy of Rhetoric*, Whately's *Rhetoric*, Bain's *Composition and Rhetoric*, and Hodgson's *Errors in English* for illustration.

On Tuesdays and Thursdays the Lectures will take for text the books prescribed for the year, some of which will be read page by page and line by line, while others will be dealt with more summarily. The prescribed books will always include parts of Chaucer, Spenser, Shakespeare, and Milton, together with portions of other writers from the sixteenth century to the present day. The Lectures on Style will be illustrated from Ward's *Poets* and Craik's *Prose Selections*.

*(Honours Course, 2 to 3, three days a week in the Winter Session.)*

The Professor will also give an Honours Course in two Halves of twenty-five Lectures each. The Half-Course before



Christmas will be a Higher Rhetoric Course on the Theory of Prose and Verse in English, opening with a sketch of the History of Literary Criticism from Aristotle onwards. The course after Christmas will be devoted to some special subject connected with the Honours period of the year. The subject for 1903 will be "The English Novel"; for 1904 "The Poetry of the 19th Century after 1830."

*Honours Courses.*

G. GREGORY SMITH, M.A., *Lecturer.*

OLD AND MIDDLE ENGLISH.

A full Honours Course of Fifty Lectures (in two parts of Twenty-five Lectures each) on Old and Middle English will be delivered in the Winter Session.

A.—HISTORY OF OLD AND MIDDLE ENGLISH.

The work of this Class (Monday, Wednesday, and Friday from 3 to 4, beginning Friday, 17th October) will consist of—

1. An Historical Outline of the Development of the English Language (Phonetics, Accidence, Syntax, and Vocabulary). Special attention will be given to the Dialects and to Middle Scots.

2. English Palæography.

*Books for reference.*—Sweet's *Oldest English Texts* and *History of English Sounds*; Ellis's *Early English Pronunciation*; Sievers's *Old English Grammar* (ed. Cook); Kellner's *Historical Outlines of English Syntax*; Skeat's *Principles of English Etymology* (First and Second Series); Oliphant's *Old and Middle English*; Skeat's *Facsimiles of Old English Manuscripts*; Maunde Thompson's *Greek and Latin Palæography* (chaps. xvii.-xix.).

B.—OLD AND MIDDLE ENGLISH TEXTS.

The work of this Class (Monday, Wednesday, and Friday from 3 to 4, beginning Wednesday, 7th January) will consist of  
(a) Readings in Old and Middle English, including some of the texts prescribed for the Examination for the Honours Degree, and  
(b) Translation of Unseen Passages.

*Summer Session, 1903.*

## ENGLISH LITERATURE.

An Honours Half-Course of Twenty-five Lectures on the Poetry of the Early Nineteenth Century (before 1830).

The Class will meet on Monday, Wednesday, and Friday from 12 to 1.

FRENCH LANGUAGE AND LITERATURE AND  
ROMANCE PHILOLOGY.CHARLES SAROLEA, PH.D., LITT.D., *Lecturer.**Ordinary Graduation Class*—3 to 4, five times a week.

This class qualifies for the Ordinary Degree of M.A.<sup>1</sup> The work consists of—

1. Readings of some French author, such as Rousseau, Voltaire, Chateaubriand, Victor Hugo.
2. Lectures on French Literature or History.
3. French Prose Composition, or Translation of an unseen passage once a week, and a lecture on the passage when the exercises are returned.
4. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.
5. Lectures on the Philology and Historical Development of the French language.

Books to be read during the Winter Session 1902-1903 :—Clédat, *Moyen-Age* ; Sensine, *Chrestomathie* (Poésie) ; Balzac, *César Birotteau* ; Victor Hugo, *Extraits* (Poésie) ; Taine, *La Bruyère Caractères* ; Saint-Simon, *Extraits*.

*Honours Class*—4 to 5.

The Honours French Class meets four days a week. It is intended to assist the studies of Candidates for Scholarships and Graduation with Honours. The work consists of—

1. Readings and explanations of Old French Texts, and of some of the more difficult Modern French authors.
2. Lectures on French Literature or History, and on Romance Philology.

<sup>1</sup> See footnote 2, page 60.

3. French Composition and Translation of unseen passages.
4. Occasional critical papers and essays.
5. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.

Books to be read during the Session 1902-1903:—Saint-Simon, *Mémoires*; Montaigne, *Essais*; *Chanson de Roland*; Rousseau, *Emile*; Victor Hugo, *Chefs-d'œuvre dramatiques*.

## ITALIAN LANGUAGE AND LITERATURE AND ITALIAN PHILOLOGY.

*Course of Fifty Lectures on the Honours Standard.*

CHARLES SAROLEA, PH.D., LITT.D., *Lecturer.*

This Class meets three days a week. The work consists of—

1. Readings and explanations of Italian Classics of the 14th and 16th century (with special regard to Dante), and of some of the more difficult modern Italian authors.
2. Lectures on Italian Literature and History, and on Italian Philology.
3. Occasional critical Papers and Essays.
4. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.

Books to be read during the Session 1902-1903:—Dante, "Divina Commedia," "De Monarchia"; Manzoni, "I promessi Sposi"; Leopardi, *Prose*; D'Ancona, "Manuale della Letteratura italiana."

Students who desire to attend this Course are requested to send their names to Dr Sarolea, University, before 1st October.

## GERMAN LANGUAGE AND LITERATURE AND TEUTONIC PHILOLOGY.

OTTO SCHLAPP, PH.D., *Lecturer.*

*Ordinary Graduation Class*—4 to 5, five times a week.

This class qualifies for the Ordinary Degree of M.A.<sup>1</sup> The work consists of—

<sup>1</sup> See footnote 2, page 60.

1. Interpretation of some Middle High German and Sixteenth Century Texts, and of modern German authors.
2. Lectures on German Literature, History, and Philology.
3. German Prose Composition, or translation of an unseen passage, or a critical paper or German essay at least once a week, and a lecture on the papers when returned.
4. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.

*Honours Class—3 to 4.*

The Honours German Class meets four days a week. It is intended to assist Candidates for Scholarships and Graduation with Honours. The work of this Class is carried on in *German*, and consists of—

1. Interpretation of Gothic, of Old, Middle, and Early Modern High or Low German Texts, and of some of the more difficult modern authors.
2. Lectures on German Literature or History.
3. German Composition, Translation of unseen passages, occasional critical papers and German essays, and a lecture on the papers when returned.
4. Written Examinations on the work done in Class, and on subjects prescribed for voluntary reading.

## SANSKRIT AND COMPARATIVE PHILOLOGY.

PROFESSOR EGGELING.

### A.—SANSKRIT LANGUAGE AND LITERATURE.

1. *Junior Class*.—Grammar and Exercises. Easy Texts (from Lanman's Reader). Easy translations from English into Sanskrit.

2. *Senior Class*.—Repetition of Grammar. Translations from English into Sanskrit. Texts, such as the Hitopadeśa, Kālidāsa's Raghuvansha or Śakuntalā; Mricchakatikā; Manu's Institutes of Law; selected Hymns of the Rigveda (Lanman's Reader).

The Senior Class will be the Graduating Class in Sanskrit for the Ordinary M.A.; but those who attend with a view to Graduation must previously have passed an examination under Sect.

IV., subs. 3 of the Ordinance, which will include plain passages for translation from and into Sanskrit, and grammatical questions.

Those who propose, in a subsequent session, to take up Sanskrit as a graduation subject, may attend the Junior Class during the Session 1902-1903.

#### B.—COMPARATIVE PHILOLOGY.

During the Session 1902-1903, the Professor will be prepared to deliver a course of Fifty Lectures on the Principles of Indo-European Philology and the history of Linguistic Studies, provided a sufficient number of Students give in their names.

#### HEBREW AND SEMITIC LANGUAGES.

PROFESSOR KENNEDY.

See Courses under Faculty of Divinity.

*Arts Students are strongly advised to begin their study of Hebrew and Arabic by taking the Summer Tutorial Classes.*

The Class of Senior Arabic, which meets three times a week, has been recognised by the University Court as a half-course qualifying for Graduation in Arts. It will meet in two successive (instead of in alternate) Sessions, when required, to suit the convenience of intending Graduates.

#### CELTIC.

PROFESSOR MACKINNON.

The Course for 1902-1903 will be arranged as follows :—

1. *Lectures*.—During the Session a course of fifteen to twenty lectures will be delivered on The History and Literature of the Gael, from 1560 to the present time, and a similar course on Celtic Grammatical forms and syntax.

2. *Reading and Exposition*.—(1) Scottish Gaelic : Extracts for Reading, Part II.; Stewart's Grammar. (2) Irish Gaelic : Keating's Three Shafts of Death ; O'Donovan's Grammar. (3) Old Gaelic : Extracts for Reading, Part II.; Windisch's Grammar and Irische Texte.

3. *Translations from English into Modern and Old Gaelic.*

Any student who attends this Class with a view to Graduation in Arts must previously have passed an examination (under Sect. IV., subs. 3 of the Ordinance), which will be in Scottish Gaelic, or Irish Gaelic, or Welsh ; and will include translations from and into English, with grammatical, literary, and easy philological questions.

The fee for a Student who attends with a view to graduation is £3, 3s.

An Advanced Class will meet in the Winter Session, 1902-1903, on two (or three) days of the week at 3 P.M. The Class will read Old Gaelic Texts from print and manuscript. — Fee, £1, 1s.

A Gaelic Class for Junior students will meet in the Winter Session 1902-1903, on three (or two) days of the week at 3 P.M. Students will read Modern Scottish and Irish Gaelic, and commence the study of Old Gaelic. Grammar and Exercises.—Fee for this class, £1, 1s.

*Text-Books.*—Extracts for Reading, Parts I. and II. ; Reid's, Stewart's and Joyce's Grammars ; Windisch's Grammar.

## II.—DEPARTMENT OF MENTAL PHILOSOPHY.

### LOGIC AND METAPHYSICS.

PROFESSOR A. S. PRINGLE PATTISON.

#### *Logic and Psychology—Ordinary Class—1 to 2.*

The course in this class falls into three parts :—

(1) Elements of Logic, Deductive and Inductive ; (2) Outline of the main facts of Empirical Psychology, dealing more particularly with the facts and processes of cognition ; (3) Introduction to the questions of philosophy, with reference to the history of philosophy ancient and modern.

1. In the Logical part of the course the text-book used is *Jevons' "Elementary Lessons in Logic."*

It is extremely desirable that students, before entering the class, should have familiarised themselves with the elementary

doctrines of Formal Logic; and a tutorial class for those who desire it is held in summer by Mr Hardie, Assistant to the Professor. An examination is held about a fortnight after the opening of the Winter Session to test the knowledge of the class. It embraces the first seventeen Lessons in Jevons with the exception of Lessons 4, 6, 7, 10, 11, and 13; for Lesson 10 students should substitute a printed chapter which they may obtain on application at the Matriculation Office. For those who fail to reach a reasonable standard in this examination, separate tutorial meetings will be held during the early part of the session.

2. In the Psychological division of the course the lectures cover the chief topics of the Psychology of Cognition, with the Psychology of the Feelings and the Will in outline. Stout's "Manual of Psychology" will be found the most useful textbook to read in connection with the lectures. Students are also recommended to consult the works of James, Sully, Höffding, Ward, Baldwin, and others, on special parts of the subject.

3. The Philosophical lectures give a sketch of the development of speculative thought in Ancient Greece and then pass to the beginnings of Modern Philosophy. Bacon, Descartes, Locke, Berkeley, and Hume are studied in succession.

Professor Fraser's "Selections from Berkeley" and certain chapters of Locke's "Essay" and Hume's "Enquiry" are used in connection with the lectures as an introduction to the problems of modern philosophy.

*Metaphysics and History of Philosophy—Honours Class—3 to 4.*

This Class, an Honours Course of Fifty Lectures, is intended for those who have attended the ordinary course, or have otherwise some acquaintance with philosophy. The lectures deal in a more advanced way with the chief systems of modern philosophy, special attention being devoted to Spinoza and Kant. A series of lectures is also given dealing with the problems of Advanced Logic.

Lectures on Greek Philosophy are delivered as a part of this



Course by Mr Hardie, Assistant to the Professor and Lecturer in Logic and Metaphysics.

The Class meets on Tuesday and Thursday throughout the Session, and during part of the Session at a separate hour for the Lectures on Greek Philosophy.

*Summer Session, 1903.*

R. P. HARDIE, M.A., *Lecturer.*

*Honours Course in Ancient Philosophy.*

This constitutes a Half-Course qualifying for Honours in Mental Philosophy and in Classics.

*Subjects.*—Pre-Socratic Philosophy, Plato and Aristotle.

*Books specially referred to.*—Ritter and Preller, *Historia Philosophiae Graecae* (7th ed.), Sections 1-173; Plato, *Phaedo*, *Republic*; Aristotle, *Organon* (as in Trendelenburg, *Elementa Logices Aristoteleae*); *Physics*, I., II.; *De Anima*, I. i., II. i.-vi., xii., III. i.-v.; *Meta.* I.

Four or five lectures will be given each week and the lectures will be arranged so that students will be able to select the subjects they require. Probably during each week of May two lectures will be given on pre-Socratic Philosophy and two on Aristotle's *Physics*, I., II., and during each week of June two on Plato and two on Aristotle's *De Anima*.

*Tutorial Course in Logic.*

This Course is intended to prepare Students for the Ordinary Class of Logic and Metaphysics. The more formal part of this subject will be treated briefly in the lectures, and further instruction in Formal Logic will be given to those who desire it by means of weekly exercises.

## MORAL PHILOSOPHY.

PROFESSOR JAMES SETH.

*Ordinary Class—2 to 3.*

After an introductory statement of the problem and method of Ethics, and of the Psychology of Will, a sketch of the

development of moral ideals in primitive, ancient, and modern times will be given, with the object of awakening reflection upon the central question of ethical science—the nature of the Moral Ideal. The investigation of this question will occupy the larger part of the course, and will be based upon a critical study of the chief systems of Ethics, in the light of their historical development. The application of the general principle thus reached to the regulation of the moral life, individual and social, will next be considered, special attention being given to the ethical basis and functions of the State, and to some of the more concrete aspects of current morality. The course will close with a discussion of the metaphysical implications of ethical theory, more particularly the question of Freedom.

The Course will consist of lectures, discussions, written examinations and essays. The text-book will be the Professor's *Ethical Principles*, and a special study will be made of Butler's *Sermons on Human Nature*, Mill's *Utilitarianism*, and Spencer's *Data of Ethics*. Sidgwick's *History of Ethics* should also be studied in connection with the lectures. A short course of lectures on portions of Aristotle's *Ethics* will be given by the Assistant to the Professor.

*Honours Class—4 to 5.*

This Course of Fifty Lectures is intended for those who have attended the Ordinary Class, or have otherwise obtained a general knowledge of Moral Philosophy. The work of the class will consist of a study, by lectures and discussions, of Greek Ethics, especially Plato's ethical dialogues and Aristotle's *Ethics*.

Lectures on Kant's *Critique of Practical Reason* and Hegel's *Philosophy of Right* will be given as a part of the Honours Course by the Assistant to the Professor

*Summer Session, 1903.*

HENRY BARKER, M.A., *Lecturer.*

*Honours Courses in Political Philosophy and Psychology.*

One or both of the following half-courses will be given, if desired by a sufficient number of students :—

1. A half-course in Political Philosophy, qualifying for Honours in Philosophy and Honours in Economic Science. This course is intended for students who propose to take Honours in Philosophy with Political Philosophy as a special subject, or Honours in Economic Science. The lectures will deal with topics selected from the following list :—

(1) Scope and method of political philosophy—relation to ethics, economics, and history. (2) General theory of political obligation ; nature and basis of the State. (3) Particular theory of rights and obligations, and the related functions of the State. (4) Structure and forms of government. (5) History of political philosophy.

Special attention will be given to the works in Political Philosophy prescribed or recommended for Honours in Philosophy and in Economic Science.

2. A half-course in Psychology qualifying for Honours in Philosophy. In this course some of the more difficult and disputed topics of psychology will be discussed, especially those which are of philosophical and ethical interest ; and some account will be given of experimental problems and results. Special attention will be given to the works in Psychology prescribed or recommended for Honours.

## COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

PROFESSOR NICHOLSON.

The Course, embracing two Half-Courses of Fifty Lectures each, qualifies for Graduation in Arts and for Graduation in Law (optional with Conveyancing).

In connection with the Lectures students are<sup>r</sup> expected to read the portions indicated in the Lectures of Mill's Political Economy, Bks. I. to III. ; Marshall's Economics of Industry ; Smith's Wealth of Nations, Bk. IV. ; and the Professor's "Treatise on Money," 5th edit. For fuller treatment of the subjects of the Lectures students may consult the Professor's "Principles of Political Economy," Bks. I. to III.

I. SCOPE AND METHOD OF POLITICAL ECONOMY.—Analysis

of Fundamental Conceptions, Wealth, Utility, Total and Marginal Utility, Capital, Labour, &c.

2. PRODUCTION OF WEALTH.—Meaning of Production—Agents of Production—Land Labour and Capital—Efficiency of Labour—Division of Labour—Organisation of Industry—Production on a Large and Small Scale—Accumulation of Capital—Growth of Population—Limits to the Production of National Wealth.

3. DISTRIBUTION OF WEALTH.—Private Property—Socialism—Land Tenures—Wages—Profits—Rents—Combinations of Labour and Capital.

4. EXCHANGE.—Theory of Value—Demand and Supply—Cost of Production—Money—Banking Credit—Rate of Interest—Commercial Crises—Foreign Trade—Free Trade—Foreign Exchanges.

5. PRINCIPLES OF GOVERNMENTAL CONTROL AND TAXATION.—An Elementary Treatment of the Leading Principles.

Four written Examinations and Two Essays. Essays Voluntary.

*Honours Class*—(Fifty Lectures, 11 to 12, Mondays, Tuesdays, Thursdays).

The Course will be devoted partly to more difficult Economic Theories not taken up in the ordinary class, and partly to the special treatment of Economic Progress, Economic Functions of Government, and Public Finance.

In connection with the lectures, Marshall's "Principles," Vol. I., and the Professor's "Principles," Vol. III., will, as far as possible, be used as text-books.

*Summer Session, 1903.*

*Lecturer*—ARCH. B. CLARK, M.A., *University Assistant.*

ECONOMIC HISTORY (Tuesdays and Thursdays, at 12).

In this Course of Twenty Lectures the leading aspects of British Economic History during the last three centuries will be discussed. The Course is intended as preparatory for students reading with a view to Graduation with Honours in

Economic Science, and for candidates for the India Civil Service.

*Text-Books:* Cunningham's "Growth of English Industry and Commerce," Vol. II.; and for beginners, Townsend-Warner's "Landmarks in English Economic History."

## THEORY, ART, AND HISTORY OF EDUCATION.

PROFESSOR S. S. LAURIE.

### I. THEORY, OR PHILOSOPHY OF EDUCATION.

#### A.—THE END AND MATERIALS OF EDUCATION.

The Possibilities and Limits of Education. The End of Education. The relation of the School to this End. The Educative Process, generally, whereby the End is attained.

Materials or Subjects of Instruction conducive to the attainment of the End, and the carrying out of the Process. Definition of the materials of instruction in their school sense. Distinction of Real and Formal, Humanistic and Naturalistic, subjects. Relative value of subjects for instruction and discipline respectively. Practicability of the School Curriculum.

*Material conditions of the life and growth of Mind, i.e. Physiology and its Educational Lessons.*

#### B.—PHILOSOPHY OF EDUCATION, *i.e.*

*Applied Psychology and Ethics.*—1. Rational Psychology : its educational relations fully treated. Periods of Mental Growth. Methodology or the Principles and Rules of the Art of Instruction which the Rational Psychology yields.

2. Psychology of the Ethical Nature of Man in its educational relations. The Real of Morality (Instruction and Training) ; the Formal in Morality (Discipline to Duty).

### II. ART OF EDUCATION OR APPLICATION OF PRINCIPLES AND RULES.

A.—*Intellectual.*—*Rules of the Art, i.e. Method in Intellectual Instruction, Training, and Discipline.*—Analytic exposition of the Rules, showing their derivation from Rational Psychology. Application of the Rules to teaching of—

(1) Real-Naturalistic subjects, *e.g.* Object-lessons, Nature-knowledge, Elementary Science, Geography, &c., &c.

(2) Real-Humanistic subjects, *e.g.* Language, Literature, Economics, History, &c.

(3) Formal subjects, *e.g.* Arithmetic, Geometry, Grammar, Foreign Languages, &c.

B.—*Ethical*.—*Rules of the Art*, i.e. *Method in Moral Training and Discipline*.—Motives. The Authority of the Teacher. The meaning of Authority. The nature and conditions of its exercise. Punishments, Rewards, and school discipline generally.

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Organisation of a School. Organisation of a State-system. Ideas governing Primary, Secondary, and University Instruction respectively. The Manual and the Technical in Instruction. School appliances. Manipulation of a Class. The Teacher.

#### C.—HISTORY OF EDUCATION AND OF THEORIES.

*Pre-Christian Education*—A general survey of.—1. Education in Ancient Egypt. 2. Education among the Semitic Races. 3. Education of the Hindu Races. 4. The Education of the Ancient Persians. 5. Education among the Hellenic Races. The educational views of Plato and Aristotle. 6. Education among the Romans. 7. The Institutions of Quintilian. 8. Plutarch.

*Christian Education*—1. The decay of the Romano-Hellenic, and the rise of Christian, Education. 2. The Cathedral and Monastery Schools. 3. The Rise of Universities.

*The Renaissance*—1. Humanism as represented by Vittorino da Feltre, Elyot, Rabelais and Montaigne, Erasmus, Colet, Luther, Melancthon, John Sturm, Roger Ascham. Exposition of "The Scholemaster." The Jesuits. (*The first four fully treated.*)

*The Modern Movement*—1. Lord Bacon. 2. Ratichius. 3. Comenius. 4. Milton. 5. Analysis and exposition of John Locke's "Thoughts on Education," and the "Conduct of the Human Understanding." 6. Rousseau. 7. Pestalozzi, Jacotot, Fröbel, &c. 8. Dr Andrew Bell and Joseph Lancaster. 9. Dr

Arnold. 10. Herbert Spencer and contemporary Utilitarian Realism.

*Note.*—The books to be thoroughly studied during the Session, apart from the Lectures, are Comenius' *Didactic*, and the Professor's book on "Language and Linguistic Method," *third edition*. The "Institutes of Education" must also be in the hands of the student, *second edition*. *Four written Examinations will be held during the Session, and Three Essays on educational principles or method called for.*

*Books recommended in addition to those named above in the Regulations for the Diploma.*—Matthew Arnold's "Report on German High Schools"; Sully's "Handbook of Psychology for Teachers"; Herbert Spencer's "Education"; De Garmo's "Herbart and the Herbartians"; Stuart Mill's "Rectorial Address"; Thring on "Teaching."

PRACTICE IN TEACHING.—*Candidates for Diploma.* Arrangements are made at the Training Colleges for securing training in the *Practice of Teaching* to the extent of the requirements of the University Schoolmaster's Diploma now recognised by the Education Department. Fee for this, £1, 1s. The School Board admit Diploma Candidates to the Royal High School, and the Heriot Governors and Merchant Company have also kindly thrown open their Secondary Schools for those who are going in for the *higher Diploma*.

## PHILOSOPHY OF LAW

PROFESSOR SIR LUDOVIC J. GRANT, BART.

This Course of Forty-five class meetings, commencing on Tuesday, 14th October 1902, at 2, will qualify as a half-course for graduation. *Vide under Faculty of Law.*

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## GIFFORD LECTURES ON NATURAL THEOLOGY.

*Lecturer*—PROFESSOR HENRY MELVILL GWATKIN, D.D.

These Lectures were endowed by the late Adam Gifford, Senator of the College of Justice, "for promoting, advancing,



teaching, and diffusing the study of Natural Theology in the widest sense of that term." . . . "The lecturers appointed shall be subjected to no test of any kind, and shall not be required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind ; they may be of any denomination whatever, or of no denomination at all ; they may be of any religion or way of thinking, or, as is sometimes said, they may be of no religion ; or they may be so-called sceptics or agnostics or free-thinkers ;—provided only that the 'patrons' will use diligence to secure that they be able reverent men, true thinkers, sincere lovers of and earnest inquirers after truth. I wish the lecturers to treat their subjects as a strictly natural science, the greatest of all possible sciences, indeed, in one sense, the only science,—that of Infinite Being, without reference to or reliance upon any supposed special exceptional or so-called miraculous revelation. The lecturers shall be under no restraint whatever in their treatment of their theme. The lectures shall be public and popular, that is, open not only to students of the Universities, but to the whole community, without matriculation."

*The arrangements for the next course will be duly announced.*

### III.—DEPARTMENT OF SCIENCE.

#### MATHEMATICS.

PROFESSOR CHRYSTAL.

*Junior Class*—Taught by the Assistant, under supervision of the Professor. 12 to 1.

Plane Geometry equivalent to Euclid, Books i., ii., iii., iv., and vi. (*Syllabus of Plane Geometry*, prepared by the Association for the Improvement of Geometrical Teaching forms the text of the lectures); Solid Geometry, equivalent to Euclid, Book xi.; Modern Geometry ; and Elementary Algebra.

*Senior Class*—9 to 10.

This is the qualifying class for the Ordinary Degree of M.A. and for the First Science Examination.<sup>1</sup>

<sup>1</sup> See footnote 2, page 63.

Algebra, including the elements of the Theory of Equations, and of Determinants, the Theory of Limits and the Elements of Curve Tracing; Plane and Spherical Trigonometry; Conic Sections, treated geometrically and analytically; Modern Geometry.

*Intermediate Honours Class*—Monday, Wednesday, Friday,  
11 to 12.

This course will suit Engineers and other Science Students who do not wish to make a specialty of Pure Mathematics.

Elementary parts of the Differential and Integral Calculus, and of the Calculus of Finite Differences. Analytical Geometry, Plane, and Elementary Solid. It is assumed that the Student has a knowledge of the Theory of Equations, and of the elements of the Theory of Determinants before he joins this Class.

*Advanced Honours Class*—Monday, Wednesday, Friday,  
10 to 11.

The subjects of this are the higher parts of the Differential and Integral Calculus; Differential Equations; Definite Integrals with special reference to Fourier's Theorem; Functions of Laplace and Bessel; Higher Plane Curves; Analytical Geometry of Three Dimensions.

Additional lectures on Projective Geometry, and other special subjects are given occasionally.

*Tutorial Classes.*—Occasional lectures are also given by the Class Assistant. The time is devoted to the repetition of parts of the class lectures and to the working of examples.

*Home Exercises* are prescribed weekly in all the classes.

*Written Examinations* are held during the Session. The class honours are determined solely by these examinations.

*Text-Books.*—As a rule *special* text-books are not prescribed; but the student is recommended to select from the following:—

*Geometry.*—Wilson's Elementary Geometry, or the Text-Books of the Society for the Improvement of Geometrical Teaching, and one or more of the following, for the sake of the exercises they contain:—Mackay's, Todhunter's, Nixons', or

Casey's edition of Euclid's Elements, and Casey's Sequel to Euclid.<sup>1</sup>

*Algebra.*—Chrystal, or Todhunter, Gross, Chambers's Mathematical Tables.

*Solid Geometry and Conic Sections.*—Taylor (smaller work) or Taylor<sup>1</sup> (larger work).

*Trigonometry.*—Pressland and Tweedie, or Lock (M'Lelland and Preston<sup>1</sup> for Spherical Trigonometry).

*Analytical Geometry.*—Smith's Analytical Conic Sections; and Dyer's Exercises in Analytical Geometry. Students intending to take the Third Class are recommended to get Salmon's Conic Sections, Basset's Elementary Treatise on Cubic and Quartic Curves, Salmon's Higher Plane Curves,<sup>1</sup> and Salmon's Geometry of Three Dimensions,<sup>1</sup> or, instead of the last, Smith's Solid Geometry.

*Projective Geometry.*—Cremona's Elements of Projective Geometry translated by Leudesdorf, or Henrici's Article on Geometry, "Encyclopædia Britannica" (9th edition).

*Higher Algebra and Theory of Equations, etc.*—Burnside and Panton's, or Todhunter's Theory of Equations; Thomson's Introduction to Determinants, and Muir<sup>1</sup> or Scott<sup>1</sup>; and Salmon's Higher Algebra for those who mean to read for Mathematical Honours.

*Differential and Integral Calculus.*—Williamson's Treatises, Forsyth's Differential Equations,<sup>1</sup> Frost's Curve Tracing, Boole's Finite Differences.<sup>1</sup>

*Summer Session, 1903.*

CHARLES TWEEDIE, M.A., B.SC., *Lecturer.*

1. *Senior Mathematics (First Graduation Half-Course)*—

11 to 12.

This Class qualifies for Graduation in Arts and Science as a First Half-Course<sup>2 3</sup> in Mathematics. The work consists of

<sup>1</sup> Recommended to those only who make Mathematics a speciality.

<sup>2</sup> See footnote 2, p. 63.

<sup>3</sup> The first half of the Winter Graduation Course up to Christmas qualifies as a First Half-Course in Mathematics, and the second half of the Winter Course from Christmas to the end of the Session as a Second Half-Course. Any First Half-Course, along with any Second Half-Course, taken subsequently, qualifies as a full Course of Instruction for Graduation.

Algebra and Plane Trigonometry, corresponding to the First Half of the Winter Graduation Course.<sup>1</sup>

2. *Senior Mathematics (Second Graduation Half-Course)*—  
12 to 1.

This Class qualifies for Graduation as a Second Half-Course<sup>2</sup> if taken *after any* First Half-Course in Mathematics. Suitable also for Students reading for the more advanced part of the Winter Graduation Course. The work consists of Algebra and the elementary treatment of the Conic Sections, Geometrical and Analytical.

In each Class weekly exercises are prescribed, and two written examinations are held.

3. *Honours Mathematics (Graduation Half-Course)*—10 to 11.

This Class qualifies as a First Half-Course for Graduation in Arts and Science, with Honours in Mathematics and Natural Philosophy, and will also, so far as is expedient, be adapted for Engineering Students.

The course will aim at a working acquaintance with the more elementary parts of Determinants and the Theory of Equations (not treated in the Winter Advanced Courses), Differential and Integral Calculus, Finite Differences, and Analytical Geometry.

*Tutorial Classes.*

The above Classes also serve for Tutorial Classes.

Weekly exercises are prescribed on the work of each class.

For text-books, see page 92.

NATURAL PHILOSOPHY including APPLIED  
MATHEMATICS.

PROFESSOR MACGREGOR, DR KNOTT, AND DR PEDDIE.

*Ordinary Class.*<sup>3</sup>—Professor MACGREGOR.

Daily, 11-12—Winter Session—Qualifying for M.A. Degree.

The work of the Class is conducted partly by lectures and partly by laboratory exercises. The subjects treated in the

<sup>1</sup> See footnote 1, p. 93.

<sup>2</sup> See footnotes 2, 3, p. 93.

<sup>3</sup> See footnote 2, p. 63.

lectures are the elements of the following :—Dynamics (including Kinematics, Kinetics and Statics), the properties of Solids, Fluids and Gases (including Gravitation, Elasticity, &c.), Sound, Heat (including Thermodynamics), Light and Radiation generally (including Geometrical and Physical Optics), and Electricity and Magnetism. Tutorial lectures are given by the Class Assistant on the solution of problems, especially in Dynamics. Knowledge of the Mathematics of the Preliminary Examination on the higher standard is assumed.

Students who wish to supplement their reading by practical exercises will be allowed to do so to such extent as may be found possible, without the payment of any additional fee.

Four Examinations are held during the Session, at which students who wish to obtain qualifying certificates are required to appear.

Candidates for Certificates of Merit are expected to devote special attention to Dynamics, to do such collateral reading as may be recommended, and to carry out and report upon a short series of laboratory exercises.

Books for reference :—MacGregor's or Hicks' "Dynamics," Knott's or Peddie's or Watson's "Physics," Tait's "Properties of Matter," Maxwell's "Theory of Heat." For occasional reference :—Tait's "Laws of Motion," Mach's "Mechanics," Tait's "Heat," Wright's "Heat," Tait's "Light," Poynting's "Sound," Foster and Atkinson's and S. P. Thompson's "Electricity and Magnetism," Ames' "Theory of Physics," Hastings and Beach's "General Physics," Everett's "Deschanel's Natural Philosophy," Barker's "Physics" (advanced course), Magie's Anthony and Bracket's "Physics," Daniell's "Principles of Physics."

*Intermediate Honours Class*—Professor MACGREGOR and  
Dr KNOTT.

Monday, Wednesday and Friday, 9-10.—Winter Session.—Qualifying as a full course for M.A. with Honours in Mathematics and Natural Philosophy.

The work of the Class consists of (1) a Course of Lectures by

Dr Knott on the less advanced portions of the Dynamics of Particles, Rigid Solids, and Flexible Strings; and (2) a Course by Professor MacGregor on Thermodynamics.

A sufficient knowledge of Analytical Geometry and the Differential and Integral Calculus is assumed.

Books of Reference :—Tait's "Dynamics," Tait and Steele's "Dynamics of a Particle," Tait's "Sketch of Thermodynamics," Bayne's "Thermodynamics," Buckingham's "Thermodynamics."

*Advanced Honours Class*—Professor MACGREGOR and

Dr KNOTT.

Monday, Wednesday and Friday, 12-1.—Winter Session.—Qualifying as a full Course for M.A. with Honours in Mathematics and Natural Philosophy.

The work of the Class consists of (1) a Course of Lectures by Dr Knott on the more advanced parts of Dynamics and on Elasticity or on Hydrodynamics and Thermal Conduction; and (2) a Course by Professor MacGregor on Electricity—Electrostatics and Magnetism, and Electrokinetics, being treated in alternate sessions (in 1902-3, Electrokinetics).

A knowledge of the subjects of the Intermediate Honours Class is assumed.

Books of reference :—Tait's "Dynamics," Thomson and Tait's "Natural Philosophy," Minchin's "Statics," Lamb's "Hydrodynamics," Emtage's "Electricity and Magnetism," J. J. Thomson's "Elements," Chrystal's articles on Electricity and Magnetism in "Encyclopædia Britannica," Mascart and Joubert's "Electricity and Magnetism."

*Summer Session, 1903.*

*Honours Class in Physical Applications of Vector Analysis*—

Dr KNOTT.

Monday, Wednesday and Friday, 9-10.—Qualifying as a Half-Course for M.A. with Honours in Mathematics and Natural Philosophy.

A Course of Lectures will be given on the Application of Vector Analysis (or Quaternion Analysis) to Dynamics and

Mathematical Physics. It may be regarded as a dynamical introduction to the study of Vector Algebra, which is becoming more and more important in the higher branches of Dynamics, and especially in the Theory of Electricity and Magnetism.

Certain sections of Tait's "Quaternions" will be found useful for reference.

*Summer Session, 1903.*

*Honours Class in Wave Theory (Light and Sound).—*

Dr PEDDIE.

Monday, Wednesday and Friday, 9-10.—Qualifying as a Half-Course for M.A., with Honours in Mathematics and Natural Philosophy.

The work of this Class deals with the Mathematical Treatment of the Undulatory Theory both from the Kinematical and the Dynamical sides, and with the Mathematical Treatment of Sound.

As the whole of these subjects cannot be fully discussed in one Session, the work will be arranged on a two-year plan.

The course is a qualifying half-course for the final Science Examination as well as for the M.A. Degree with Honours.

*Summer Session, 1903.*

*Advanced Experimental Physics Class.—*Dr PEDDIE.

Daily, 10-11.

For the work of this Class very little Mathematical knowledge is requisite, as the treatment of the subjects is purely experimental. The subjects discussed are Constitution of Matter and Kinetic Theory, Sound, Light, Heat, Electricity, Magnetism, and Electromagnetic Radiation. All of these subjects cannot be fully treated in one Session as the discussion is, in each case, carried out so as to include the results of the most recent work. Members of the Class are therefore, desired to indicate those subjects which they wish to have treated.

The Class constitutes a full qualifying course for the final Science Examination, but is not recognised as qualifying for



the M.A. degree. The experimental treatment of subjects discussed mathematically in the Honours Class will be found most useful by advanced students.

For the Syllabus of the Advanced Science course in Dynamics see Courses in Science.

For the Medical Physics Class see Faculty of Medicine.

*Winter and Summer Sessions.*

*Junior Practical Class.*—Professor MACGREGOR and  
Dr PEDDIE.

Daily, 10 to 3.

The work of this Class includes the experimental investigation of simple physical laws, and the performance of laboratory exercises intended to afford experience of the use of a variety of physical instruments and methods.

Short courses of lectures are given by the Professor on the treatment of errors and the discussion of observations.

All Students are recommended, and candidates for Certificates of Merit are required, to prepare reports on the investigations and other exercises carried out, discussing the observations made, and the degree of precision of the results.

This Class does not qualify for the M.A. degree, but is preparatory to the Advanced Practical Class.

Books of reference : Kohlrausch's "Physical Measurements," Glazebrook and Shaw's "Practical Physics," Ayrton's "Practical Electricity," Ostwald's "Physico-Chemical Measurements," Threlfall's "Laboratory Arts."

*Winter and Summer Sessions.*

*Advanced Practical Class.*—Professor MACGREGOR  
and Dr PEDDIE.

Daily, 10 to 3.

Qualifying as a Half-Course for M.A. with Honours in Mathematics and Natural Philosophy.

The work consists of the conducting of original investigations in those departments of Physics in which the Laboratory is provided with the requisite apparatus.

Students who engage in research, whether independently or in conjunction with the Professor or one of the Lecturers, will be required to acquaint themselves with the literature of the subject in which their investigations lie, to prepare critical reports on those portions of it with which their work is more immediately concerned, and to prepare full reports on the methods and results of their own investigations.

## ASTRONOMY.

PROFESSOR COPELAND.

*(Eighty Lectures, and, on different days, Twenty Meetings of two hours each for Observatory work.)*

Lectures on Practical Astronomy will be delivered on Mondays, Tuesdays, Wednesdays and Thursdays. Instruction in the use of portable and fixed astronomical instruments will be given at the Royal Observatory on Blackford Hill, on Fridays, beginning at 7 P.M. Attendance at the evening demonstrations is obligatory on all who take Astronomy as a qualifying course for graduation. The Lectures will be divided into two sections, the first of which will embrace the theory and use of Astronomical Instruments, together with as much General Astronomy as is requisite to guide the student in making observations in the field as well as in an observatory. The Second Division will treat of the utilization of observations of Comets, etc., in the computation of orbits and ephemerides.

## CHEMISTRY.

PROFESSOR CRUM BROWN.

This Course, the same as for Students of Medicine and Science, embraces One Hundred Lectures and Fifty Meetings for Practical Work in the Practical Chemistry Class-Room.

## ZOOLOGY.

PROFESSOR EWART.

This Course, the same as for Students of Medicine and Science, embraces Fifty Lectures and Fifty hours for Practical Work. The whole course must extend over seventy-five separate days.

## BOTANY.

PROFESSOR BAYLEY BALFOUR.

This Course is the same as for Students of Medicine and Science with additional laboratory work. Attendance must be given on seventy-five separate days.

## GEOLOGY, INCLUDING MINERALOGY.

PROFESSOR GEIKIE.

*Winter Course.*

This Course, the same as for Students of Science, embraces Seventy Lectures, Twenty Hours for Practical Work, and Ten Field Demonstrations.

The second half of this Course (after Christmas) is a qualifying Half-Course.

*Summer Course.*

See under Pure Science. This Course is a qualifying Half-Course. Students are advised to take this Half-Course before the winter Half-Course.

#### IV.—DEPARTMENT OF HISTORY AND LAW. HISTORY.

PROFESSOR LODGE.

The Course qualifies for Graduation in Arts. The subject, until further notice, is GENERAL BRITISH HISTORY, divided into the following Periods and Subjects :—

*Part I.*—1. The Original Peoples of Britain and the Roman Occupation.—2. The Growth of the English Nation.—3. The Growth of the Scottish Nation.—4. The Institutions of England before the Norman Conquest.—5. Norman and Angevin Rule.—6. Simon de Montfort and Edward I.—7. The Hundred Years' War.—8. Constitutional Development during the War.—9. The Social Importance of the Fourteenth Century.—10. The Scottish Monarchy, Nobles, and Parliament.—11. Personal Monarchy in England.—12. Social Changes in England under

the Tudors.—13. The Reformation in England.—14. The Reformation in Scotland.

*Part II.*—15. Crown and Parliament (1603-1640).—16. The Long Parliament and the Protectorate (1640-1660).—17. Restoration and Revolution (1660-1689).—18. Colonies and Commerce (1600-1689).—19. Whigs and Tories: William III and Marlborough (1689-1714).—20. Scotland and Ireland: the Union (1689-1714).—21. The Whig Supremacy (1714-1760).—22. India and America (1714-1763).—23. George III and the Parliament (1760-1783).—24. The American War (1763-1783).—25. Pitt and the French Revolution (1783-1815).—26. Ireland: the Union (1715-1800).—27. India (1763-1815).—28. Reaction and Reform (1815-1832).

WORK OF THE CLASS.—1. Lecture daily, except Saturdays, at eleven.

2. Three Class Examinations will be held, and three or more Essays set, during the Session. Honours will be awarded to candidates distinguished both in the examinations and in the essays.

3. The History Library (adjoining Professor Kirkpatrick's Class-Room) may be consulted by members of the History Classes during specified hours.

*Books recommended.*—For elementary purposes, S. R. Gardiner's "Student's History of England," or Ransome's "Advanced History of England," J. R. Green's "Short History of the English People," J. F. Bright's "History of England," with Hume Brown's "History of Scotland," and Morris' "History of Ireland" (Cambridge Series). For wider study, see the Syllabus given to the Class and the lists given in the "Introduction to English History" by Gardiner and Mullinger, part ii.

*Honours Classes.*

PROFESSOR LODGE.

The subject for the Session 1902-1903 is

THE HISTORY OF EUROPE FROM 1715-1815.

The following book is prescribed:—"Diaries and Correspondence of the First Earl of Malmesbury."

*Books recommended for the use of the Class.*—Martin, "Histoire de France," tomes XV. and XVI.; Carlyle, "Frederick the Great"; Mahan, "The Influence of Sea Power upon History"; and "The Influence of Sea Power upon the French Revolution and Empire"; De Tocqueville, "France before the Revolution"; Morse Stephens, "History of the French Revolution"; Mignet, "History of the French Revolution"; Seeley, "Life and Times of Stein"; Fyffe, "History of Modern Europe," vol. I.; Lanfrey, "Life of Napoleon."

This Course of Fifty Lectures qualifies for graduation in Arts with Honours in History. The Lectures will be given on Mondays, Wednesdays, and Fridays at 10.

Two class examinations will be held, and several essays set, during the session. Students in this class may attend Mr Heatley's "Mackay Lectures," without fee, and may use the History Reading-Room.

The Honours Subject for the session 1902-1903 will be—The History of Europe from 1715 to 1815.

BRITISH CONSTITUTIONAL HISTORY (from Wycliffe to Luther).

*Honours Course—Fifty Lectures.*

PROFESSOR KIRKPATRICK.

I. Introductory—Conflicts between State and Church—Precursors of Wycliffe. II. Outline of Wycliffe's career—his doctrines—Lollardy—Survival of Wycliffe's influence. III. The Great Schism—the Empire and the Papacy—Huss, Jerome, of Prague, and Peter Payne—Luther. IV. Illustrations of Wycliffe's doctrines from his works and other original sources.

*Books recommended.*—Wycliffe's Works—"Select English Works," ed. by Thomas Arnold, 3 vols. 1869-71; "English Works of Wyclif hitherto unprinted," ed. by F. D. Matthew, 1880; Johann von Wiclif und die Vorgeschichte der Reformation" (by Dr G. V. Lechler, 2 vols., Leipzig, 1873) or translation by Lorimer; "Fasciculi Zizaniorum," ed. by W. W. Shirley (Rolls Series, 1858); "Political Songs," ed. by Wright (Rolls Series); "Chronicon Angliae," ed. by E. M. Thomson 1874; "Piers the Plowman," and Chaucer's "Prologue"; Wal-

singham's "*Historia Anglicana*," ed. by Riley (Rolls Series); Loserth's "*Wiclif und Hus*" (or translation); James Baker's "*Peter Payne, a great forgotten Englishman*"; Palacky's "*Documenta Magistri Jo. Hus vitam illustrantia*" (1403-18); Wycliffe's "*Wicket*"; "*Triologus*" (ed. by Lechler; Clar. Press); Wycliffe's "*De officio regis*"; Creighton's "*Papacy during the Reformation*," vols. I. and II.); Trevelyan's "*Age of Wycliffe*"; Seebohm's "*Oxford Reformers*."

These Lectures, qualifying as a full course for graduation in Arts with Honours in History, or with Honours in English, or as a half-course for graduation in Law, will be given on Mondays, Tuesdays, and Thursdays, at 4 P.M., beginning on Thursday, 16th October 1902. (After Christmas, on Tuesdays and Thursdays only). Students attending them may use the History Library, superintended by Mr Heatley, Mackay Lecturer and Assistant in History, who may be consulted as to reading during six hours weekly (Winter Session), at hours to be intimated in October. They may attend Mr Heatley's Mackay Lectures without additional fee.

#### ANCIENT (SCOTTISH) HISTORY AND PALÆOGRAPHY.

PROFESSOR HUME BROWN.

I. Ancient (Scottish) History (*Mondays, Wednesdays and Fridays*, from 4 to 5 P.M.).—The main subject of this Course is Scottish History from its origins to the close of the 15th century, but the histories of other countries will be treated, so far as they directly bear on the development of Scotland. The Course will be divided into the following periods:—(1) The Roman Occupation. (2) The Moulding of Scotland through the gradual union of Picts, Scots, Britons and Angles. (3) The Consolidation of Scotland. Under this head will be discussed the growth of Civil, Political and Ecclesiastical Institutions, and the appearance and influence of Historic Families. (4) The War of Independence. (5) The Struggle between the Crown and the Barons.

This Course qualifies for Graduation in Arts with Honours in History.

*Books prescribed*:—Skene, "Celtic Scotland," vol. i.; Rhys, "Celtic Britain" (2nd Edit.); Hill Burton, "History of Scotland (volumes dealing with the period prescribed); the Professor's "History of Scotland," vol. i.; Tout, "The Empire and the Papacy"; Lodge, "The Close of the Middle Ages."

*Books recommended*:—E. W. Robertson, "Early Kings of Scotland"; Bishop Dowden, "The Celtic Church in Scotland"; Lord Hailes, "Annals of Scotland"; Fraser Tytler, "The History of Scotland from the Accession of Alexander III. to the Union"; Cosmo Innes, "Scotland in the Middle Ages"; "Sketches of Early Scotch History"; "Scotch Legal Antiquities"; Pinkerton, "History of Scotland from the Accession of the House of Stuart to that of Mary"; A. Lang, "History of Scotland," vol. i.; Bain, "The Edwards in Scotland."

II. Palæography (Tuesdays and Thursdays, from 4 to 5 P.M.).

This Course will deal only with Latin Palæography, and specially with the period from the 11th to the 15th century (inclusive). The opening meetings of the Class will be devoted to the study of hand-writing from the 5th to the 11th century, but the chief work of the class will consist in the reading of Scottish Documents from the 11th century. Illustrative specimens of the documents of other countries will also be read. Questions of Diplomatic will be discussed in connection with the reading of Documents.

*N.B.*—Some knowledge of Latin is required for this Class.

*Text-Book*:—Maunde Thompson, "Handbook of Greek and Latin Palæography."

*Books recommended*:—Chassant, "Paléographie des Chartes et des Manuscrits"; Prou, "Manuel de Paléographie, Latine et Française"; Leist, "Katechismus der Urkundenlehre"; "National MSS. of Scotland," Part I.

*Lecturer*—D. P. HEATLEY.

#### POLITICAL SCIENCE.

A full Honours Course on Political Science for graduation with Honours in History and in Economic Science will be given in two parts of twenty-five lectures each:—



(1) *Winter Session*, 1902-3, on Mondays, Wednesdays and Fridays at twelve, beginning on 12th January 1903.

*The History of Political Thought since the Reformation*, with a retrospect. The Course will include a comparative study of political theories.

(2) *Summer Session*, 1903, on Mondays, Wednesdays and Fridays at 10, beginning on 4th May, 1903 :

*The Modern State*: The Scope of Politics ; Foundations, Structure and Working of the State ; the Federal State ; Functions of Government ; Legislative and Administrative Methods ; Central and Local Authority ; Representative Government ; Problems of Modern Democracy.

*Books*: Woodrow Wilson, "The State" ; Aristotle, "Politics" ; Hobbes, "Leviathan," Part II. (Of Commonwealth) ; Locke, "Civil Government" ; Mill, "Representative Government" ; "The Federalist," ed. by H. C. Lodge ; Gierke, "Political Theories of the Middle Age," transl. and ed. by F. W. Maitland ; Dicey, "Law of the Constitution" ; Janet, "Histoire de la Science Politique" ; Graham, "English Political Philosophy from Hobbes to Maine."

*Mackay Lecturer*—D. P. HEATLEY.

#### BRITISH STATESMEN OF THE EIGHTEENTH CENTURY.

This Course of Twenty Lectures will be given in the Moral Philosophy class-room, before Christmas, on Mondays and Wednesdays at 12, beginning on Monday, 20th October, 1902.

The Lectures will treat of the following statesmen and of their political problems : Bolingbroke, Walpole, Carteret, Henry Pelham, Chatham, Burke, Pitt.

Lecky's *History* may be used in connection with the lectures.

*Summer Session*, 1903.

*Lecturer*—D. P. HEATLEY.

#### BRITISH HISTORY (General and Constitutional) : 1066-1832.

A Course of Fifty Lectures on the Political Development of Britain. First Lecture, Monday, 4th May, 1903, at 9 A.M. For preliminary reading apply to Mr Heatley.

ANCIENT HISTORY (Classical).

H. J. CUNNINGHAM, M.A., *Lecturer.*

*See under Classics.*

ECONOMIC HISTORY (Modern).

A. B. CLARK, M.A., University Assistant, *Lecturer.*

*See under Philosophy.*

## FINE ART.

PROFESSOR BALDWIN BROWN.

This Course of one hundred Lectures, qualifying for the M.A. degree, is designed—

1. To bring before students, by critical descriptions and illustrations, the chief ancient and modern works of Architecture, Sculpture, Painting, and the Decorative or Industrial Arts.

2. To show how these works are connected in origin and use with the national and social life of successive epochs ; and, conversely, how Artistic Monuments illustrate Classical and Biblical literature, and bear on historical investigation in general.

3. To explain as far as practicable the technicalities of the various Arts, and to open up those aspects of Art which present themselves naturally to the artist, but are sometimes overlooked by the literary student.

On the historical side—

The characteristics of different styles and schools of Art will be broadly indicated, but this part of the subject, which can be studied from books, will not be dwelt upon at length.

On the artistic side—

Particular stress is laid on the explanation of different materials and technical processes, as upon these largely depend the particular forms in which beauty is realised in the various works of human hands.

Arrangements for the work of the Class :—There are Lectures daily at 3 P.M. Three Class examinations are held, and a series of eight Essays are set for the Cousin Prize (£15). The Essays, to the number of at least five, are included in the work required from those taking the Course for Graduation.

The Class Library, Reading Room, and collections of examples are open to members of the Class.

Museums, &c., are visited from time to time on Saturdays.

The Professor's manual, "The Fine Arts," is used, so far as it goes, as a text-book. Other books to be read by those taking the Course for Graduation are indicated on page 142.

*Honours Courses.*

CLASSICAL ARCHÆOLOGY AND HISTORY OF  
ANCIENT ART.

This Course qualifies as an alternative subject for Honours in History. For details see page 75.

HISTORY AS ILLUSTRATED IN MONUMENTS.

An Honours Course of Fifty Lectures will be given in the Winter Session, 1902-3, on History as illustrated in Monuments and Topography.

The course will be divided into two half-courses of twenty-five Lectures each, delivered one before and one after the Christmas vacation.

The first half-course will deal with the bearing of ancient monuments on the study of Greek and Roman history and literature. Among the subjects treated of will be : The archaeological evidence for the pre-history of Greece ; The relation of art to the public life of Hellas ; Greek cities old and new ; Greek coins as illustrating Greek history ; The Topography of Rome ; The economics of Roman public works ; Roman roads and monuments as part of the history of the Roman imperial system.

The subject of the second half-course will be the aid afforded by monuments to the study of British History, and it will embrace a notice of civil and ecclesiastical works of various kinds connected with the life of Great Britain in different epochs of the middle ages.

Roman towns, villas, military works and roads, with their fate in Saxon times, will be used to illustrate the condition of

the Britannic Provinces and the changes wrought by the Teutonic conquest, and village and borough morphology will be examined in their bearing on the constitution of society in mediæval times. Ecclesiastical institutions and monuments, including the monastery in its various forms ; and the chieftain's dwelling, with the different phases through which it has passed, will receive notice and illustration.

## CONSTITUTIONAL LAW AND HISTORY.

PROFESSOR KIRKPATRICK.

This Course is divided into two half-courses : (1) Constitutional History of England ; (2) The Colonies, United States of America, France, Germany, Switzerland, etc. (see under Faculty of Law).

## ECCLESIASTICAL HISTORY.

PROFESSOR TAYLOR.

(See under Faculty of Divinity.)

## ROMAN LAW.

PROFESSOR MACKINTOSH.

A full Course qualifying for Graduation in Arts is given during the Winter Session. It is divided into two distinct parts—(i) History ; (ii) Institutes.

*For details see under Faculty of Law.*

## PUBLIC INTERNATIONAL LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART.

This Course of Forty-five class meetings commences on 7th January 1902, at 2. *Vide under Faculty of Law.*

## ADVICE TO STUDENTS REGARDING CURRICULA IN ARTS.

1. Every intending Arts Student is advised to make himself familiar with the Regulations for Graduation in Arts before commencing his course. In particular he should make sure, in the first place, that he has complied with all the Conditions of the Preliminary Examination. He should then choose a Curriculum to suit his requirements; see that it satisfies the regulations; that he has all the qualifications necessary for entering certain Classes; and that his studies are spread over the required number of Sessions. In any case of doubt he should consult the Dean of the Faculty.

2. While Students are fully at liberty to arrange their Curricula as they deem best for their particular requirements, the Faculty of Arts strongly recommend Candidates for the *Ordinary Degree* to devote their First Session to Languages and Mathematics, and to Junior Classes when such are necessary.

The Third Session should be devoted to those subjects which presuppose a previous training in others, such as English Literature, Political Economy, Education, the advanced subjects in History, and the Law subjects.

3. Candidates for Honours Degrees are advised so to arrange their classes that they may be able to devote the whole of the year immediately preceding the Honours Examination to the special work of their Honours Group.

4. Honours Students and Students studying for special examinations, should, as early in their Course as possible, consult the Professors of the Special Subjects which they are to study. Professor Hardie is Convener of a Committee specially charged with the Supervision of those studying for the Indian and Home Civil Service Examinations.

The attention of the students referred to under this head is directed to the Summer Classes, which afford them obvious facilities for arranging their studies so as to economise time, *e.g.*, they may take Summer half-Courses in some of the subjects in which they have to pass on the standard of the Ordinary Degree.

5. For special and detailed advice as to each subject, students should consult the several Professors or Lecturers *before entering upon their Curricula*. In particular, those who intend proceeding afterwards to Degrees in Divinity, Law, Medicine, Science, or Music, should in cases of doubt, consult the Deans of these Faculties as to the most appropriate Arts Curriculum.

## Graduation in Arts.<sup>1</sup>

*Candidates who commenced attendance on qualifying Classes before 1st October 1892 are referred to the CALENDAR for 1895-96, or previous CALENDARS.*

*The Degree admits to professional Study, to the Army, &c. It also qualifies for Masterships of Public Schools, subject to an examination in the methods of instruction, and six months' attendance in a Public School for the practice of teaching. Those who take the Schoolmaster's Diploma are, however, exempted from this Examination, if Graduates of this University, or if recognised by the Education Department during the currency of the session.*

### ACADEMIC YEAR.

I. The Academic year commences on the first day of October. The winter session opens about the middle of October, and includes not less than twenty teaching weeks. The summer session opens about the beginning of May, and includes not less than ten teaching weeks.

II. The Curriculum for the degree of Master of Arts (M.A.) extends over not less than three winter sessions, or two winter sessions and three summer sessions.

### PRELIMINARY EXAMINATION.<sup>2</sup>

III. (I) Before entering on the Curriculum (subject to the *proviso* contained in Section IV., Sub-section 1) each student must pass a Preliminary Examination in the following subjects :—

1. English.
  2. Latin or Greek.
  3. Mathematics.
  4. One of the following :—Latin or Greek (if not already taken), French, German, Italian, or such other language as the Senatus Academicus may approve,<sup>3</sup> Dynamics.
- (2) The examination must be passed in the matters and on the

<sup>1</sup> The annual amount of Matriculation, Class Fees, &c., of the regular course in Arts may be estimated at about £10, 10s. See Regulations as to payment of Class Fees by Carnegie Trust, page 157. See Advice to Students regarding Curricula, page 109.

<sup>2</sup> See also additional Regulations of the Joint Board of Examiners, pages 458-462 inclusively.

<sup>3</sup> Any Candidate who proposes to be examined in a language other than those above named, is required to apply to the Senatus for approval before 1st February or 1st July for the Spring and Autumn Examinations respectively.

standards hereinafter defined ; but there is a higher and a lower standard in Latin, Greek, and Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two ; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English includes Grammar and Composition, and the outlines of Geography and British History, and the standard must not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

(4) Latin and Greek comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard must not be lower than that formerly adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard must not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

(5) French, German, and Italian comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian ; and the standard must not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

(6) Mathematics on the lower standard comprises—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest ; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations ; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the higher standard, in addition, comprises Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the solution of Triangles inclusive, and the use of Logarithmic Tables.

(8) Dynamics means the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

(9) A candidate must pass in all the required subjects at one or not



more than two examinations, but may offer himself for re-examination as often as may be necessary to satisfy this condition.

IV. (1) Attendance on any class does not qualify for graduation, unless the whole Preliminary Examination has been passed. But any Student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate will be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination, and (b) no Student will be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section XXV. hereof, for three Academic years after he has completed his Preliminary Examination.

(2) Attendance on a class in any language included in the Preliminary Examination does not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the subsection immediately preceding have been satisfied.<sup>1</sup>

(3) Attendance on a class in any language not included in the Preliminary Examination will not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.<sup>2</sup>

(4) Attendance on a class of Mathematics or Natural Philosophy will not qualify for graduation unless the candidate, before entering the class—in addition to the examination in Mathematics on the Lower Standard required of all students—has passed an examination in the following subjects [Intermediate Mathematics]<sup>1</sup> :—

- (a) Euclid : Book VI., Propositions 1-19, or Geometry equivalent thereto.
- (b) Algebra : Quadratic Equations, Ratio and Proportion.
- (c) The Trigonometry of Right-angled Triangles.

(5) A student, who, having passed the Arts Preliminary Examination in accordance with these Regulations, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, will

<sup>1</sup> Candidates are required to enter for examination at the usual periods and to pay the fee of 10s. 6d.

<sup>2</sup> Candidates who require to pass an examination for entering on the courses of Sanskrit, Hebrew, Arabic, Syriac, or Celtic, are required to enter their names and pay the fee of 10s. 6d. at the usual periods for entering for the Preliminary Examination.

not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science.

V. (1) The Preliminary Examination is held at each University twice in each year, and is conducted in writing.

(2) The Joint Board of Examiners has power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject ; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics ; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by these Regulations.

(3) The Joint Board has power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other Examinations are in fact equivalent thereto.

#### ORDINARY DEGREE.<sup>1</sup>

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects recognised for graduation under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of these Regulations ; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates must attend full courses in at least seven subjects, and are examined on these subjects.

(2) Of these subjects four must be (*a*) Latin or Greek (not modern Greek) ; (*b*) English or a Modern Language (French, German, Italian, or Spanish), or History ; (*c*) Logic and Metaphysics, or Moral Philosophy ; (*d*) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the Departments specified in Section IX. of these Regulations, under the following condition :—That the whole subjects taken must include either (*a*) both Latin and Greek (not modern Greek), or (*b*) both Logic and Moral Philosophy, or (*c*) any two of the following three subjects,—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days ; or where the Senatus, with

<sup>1</sup> See advice to Students regarding Curricula, p. 109.

the approval of the said Court, may, having regard to the nature of the subject, sanction full courses of less than one hundred or half courses of less than fifty meetings respectively.

(2) Two half-courses are held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, regulates the course of study and determines the relative proportion of lectures and laboratory or practical work.

IX. The Departments of Study for graduation in Arts in each University, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by Ordinance of the University Court :<sup>1</sup>—

#### 1. *Language and Literature.*

Latin.	Italian.
Greek.	Spanish.
Modern Greek.	Sanskrit.
English.	Hebrew.
French.	Arabic or Syriac.
German.	Celtic.

#### 2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History, and Art of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

#### 3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	

#### 4. *History and Law.*

History.	Constitutional Law and History.
Archæology and Art	Roman Law.
(History of).	Public Law.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, are entitled to receive the ordinary degree of M.A. on payment of the fees required.

<sup>1</sup> See advice to Students regarding Curricula, p. 109.

DEGREE WITH HONOURS.<sup>1 2</sup>

XI. (1) The degree of M.A. may be taken with Honours in any of the following Groups, in which Honours Classes have been established in at least two subjects :—

- (a) Classics (*i.e.* Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, Classical Archæology, and Ancient History—Greek and Roman).
- (b) Mental Philosophy.
- (c) Mathematics and Natural Philosophy.
- (d) Semitic Languages.
- (e) Indian Languages.
- (f) English (Language, Literature, and British History).  
English Literature is the chief subject of this group, the linguistic and historical subjects being regarded as subsidiary.
- (g) Modern Languages and Literature.
- (h) History.
- (i) Economic Science (*i.e.* Political Economy, with either (a) Moral Philosophy or (b) History as Supplementary Honours subjects).

(2) Every candidate must take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the candidate's Honours Group; and the five subjects must include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of these Regulations.

(3) Every candidate must attend seven Classes, taking two Classes (one of which must be an Honours Class) in each of his Honours subjects.

(4) A candidate who has obtained Honours in any one Group may, before graduating, present himself again for examination in a second Honours Group. In such a case, he will not be required to attend more than two additional Classes, which must be Honours Classes, in the second Group.

Notwithstanding the foregoing provisions of this sub-section and of Section XIV. sub-section (1) hereof, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours

<sup>1</sup> *Civil Service Commission Examinations.*—Candidates for Graduation in Arts with Honours are reminded that most of their subjects are admissible also in the Public Examinations held by the Civil Service Commission and other Public Examinations, on the results of which many important posts in India and at home are awarded each year. A Committee of the Senatus has been formed for the purpose of directing the studies of Students who have these examinations in view. Those who desire advice or information on this subject should apply to Professor Hardie, Convener of the above-mentioned Committee.

<sup>2</sup> See advice to Students, p. 109.

Group in which he has presented himself, and the class he has obtained in the Group.

(5) The examination in the subjects comprised in the candidate's Honours Group must be of a higher standard than that required for the ordinary degree of M.A. In his other subjects the standard will be that required for the ordinary degree.

(6) The Senatus, subject to the provisions of Sections XVI. to XX. of these Regulations, from time to time determines what subjects are comprised in each Group, what subjects may be taken in half-courses, and in which Group they may be taken : Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of these Regulations applies to Candidates for Honours ; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, will constitute a full course for an Honours Class ; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, will constitute a half course.

XII. (1) Every candidate must include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of M.A.

(2) Greek is compulsory for candidates for Honours in Mental Philosophy. But candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, will be deemed to have satisfied the provisions of this subsection, if, before they offer themselves for the Honours Examination in Mental Philosophy, they have passed a special examination in translating into English passages from the works of Greek philosophical authors, including passages from the works of such authors not previously prescribed.

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, or Economic Science (Groups *f*, *g*, *h*, *i* of Section XI. hereof) must include within the whole subjects taken for their degree (a) Logic and Metaphysics or Moral Philosophy, and (b) Mathematics or Natural Philosophy.

(4) Every candidate must obtain a certificate of attendance on the class of Latin or Greek, under sub-sections (1) or (2) of this section, before he offers himself for examination in his Honours group of subjects.

(5) Candidates for Honours in Economic Science (Group *i* of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in the History of Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for

graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus must make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of M.A.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of M.A., but who has not yet graduated, may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and will not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one is allowed to present himself a second time as a candidate for the degree of M.A. with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate is held to have presented himself who has notified his name for examination in accordance with the University regulations. But it will be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus must make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each Group there are three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class are arranged in alphabetical order.

(2) For the degree of M.A. with Honours a Diploma is given setting forth the subjects in which he has taken Honours.

#### BOARDS OF STUDIES.

XVI. The Senatus of each University from time to time institutes Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of these Regulations.

XVII. Each Board of Studies consists of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus appoints one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of study must submit to the proper Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next Academical year; and also a syllabus of the subjects and books to be prescribed for the Examinations for the Ordinary Degree of M.A. in the next Academical year, and for the Honours Examinations in the Academical year next but one. As soon as such approval has been given, these syllabuses



must be transmitted to the Faculty of Arts for its consideration. The syllabuses, with such observations as the Faculty of Arts may see fit to make thereon, must then be transmitted to the Senatus for its sanction.

XIX. (1) Before the end of each winter session each Board of Studies must prepare a scheme, defining, for the Academical year next but one following, the classes which are deemed to be Honours Classes, and the subjects and courses of reading for Honours in its Department, and must report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, is then transmitted to the Senatus for its sanction.

(2) Each Board must in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half-courses which may be sanctioned under these Regulations, and the lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts are *ex officio* Members of each Board of Studies. The Convener presides, and, in his absence, each meeting appoints its own Chairman, and every Chairman has a deliberative, and, in cases of equality, a casting vote.

#### GENERAL.

XXI. In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination is such as the Joint Board of Examiners deems sufficient. In the case of a student, whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus must make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum must, as far as possible, be on the same standard in examinations for the same degree, and will in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of M.A. is not deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognised as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving



attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects as if the previous part of his Curriculum had been taken therein: Provided always that every such student must produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and must be examined in all the subjects necessary for the degree of M.A. by the Examiners of the University in which he completes his Curriculum, and in which alone he will be allowed to graduate; and that no such student will be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of M.A. with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of M.A., receive from them a certificate of having passed in such subject, which will count *pro tanto* as part of the examination required under the regulations for the ordinary degree of M.A.

XXVII. The degree of M.A. is in no case conferred on persons who have not satisfied the conditions hereinbefore set forth, and is not conferred *honoris causa tantum*.

XXVIII. A student who, at the time these Regulations came into operation, had commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations in force at the time in such University, may complete his course and become a candidate for the degree of M.A., with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions, if he desire to come under these regulations, is exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of these Regulations, but such attendance will not qualify for graduation.

XXX. Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as junior or middle classes, will in no case qualify for graduation. It is competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

XXXI. Ordinances numbered 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under

the provisions of the said Act, are repealed, in so far as they are inconsistent with these Regulations.

#### GRADUATION OF WOMEN.

I. It is in the power of the University Court to admit women to graduation.

II. The conditions for graduation are the same for women as for men, subject to the following modifications, which have effect until provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men:—

(1) Section XXV. of Regulations for Degrees in Arts is not applicable to the graduation of women in Arts.

(2) So long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it is in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any Scottish University, or from any teacher or in any Institution, within the University town, recognised for the purposes of graduation by the University Court: Provided always that every candidate for graduation produces evidence of having satisfied the conditions with respect to the Preliminary Examination, and be examined in all the subjects necessary for graduation by the Examiners of the University.

III. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

IV. (1) Women who may attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. (2) Women, who are candidates for graduation but not matriculated students, and who may attend classes within a University town, under the provisions of Section II. (2) hereof, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by students of the University and having, in respect of such payment, a right to the use of the Library of the University.

#### ADDITIONAL REGULATIONS BY THE UNIVERSITY COURT.<sup>1</sup>

Any Woman who has received the requisite instruction in Chemistry, Botany, and Zoology in any Scottish University, or in the Medical

<sup>1</sup> Extra Academical Teachers in Edinburgh, whose Lectures qualify Women Students for Graduation in Arts in this University:—

T. W. Drinkwater, Ph.D., Chemistry and Practical Chemistry, 17th December 1894.

Robert Stewart MacDougall, M.A., D.Sc., Botany, 17th February 1902.

College for Women, Chambers Street, Edinburgh, will (subject to the provisions of Ordinance No. 18, General No. 9, Regulations for the Graduation of Women,<sup>1</sup> &c.) be admitted to Examination in these subjects for Graduation in Arts. Women may attend within the University the advanced Courses in Botany and Zoology, and the Advanced Lecture Courses in the Chemistry Department.

REGULATIONS FOR SPECIAL STUDY AND RESEARCH, FOR  
APPOINTMENT OF RESEARCH FELLOWS, &c.

I. It is in the power of the Senatus Academicus, with the approval of the University Court, to make regulations under which graduates, Scottish Universities, or of other Universities recognised by the University Court for the purposes hereof, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It is the duty of the Senatus Academicus—

- (1) To receive and decide upon all applications for admission to prosecute special study or research.
- (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students).
- (3) To make regulations for the supervision of their work.
- (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner.
- (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. An application for admission is in the first instance referred by the Senatus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—

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<sup>1</sup> See Ordinance, Appendix to CALENDAR, 1892-93, page 51.

- (a) That his proposed line of study or research is a fit and proper one ;
- (b) That he possesses a good general education ;
- (c) That he is of good character ;
- (d) That he proposes to prosecute his studies or research during a period to be approved by the Senatus.

The Faculty or the Committee shall make a report to the Senatus upon each application. It is also their duty, subject to the regulations of the Senatus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student is required to matriculate each year, paying the ordinary fee.

VI. Research Students have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus, may determine.

VII. The title of Research Fellow may be conferred by the Senatus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Section XI., Sub-section 8, of Ordinance 27.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

- (2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus may determine.
- (3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.
- (4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research

Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Section XI., Sub-section 8, of Ordinance 27, provide such sums as it may think fit in aid of the expenses of Special Study or Research.

REGULATIONS FOR HIGHER DEGREES IN ARTS AND SCIENCE.  
DEGREE OF D.SC.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by the Regulations for Degrees in Arts, or under the Regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of the Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research under those Regulations, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of B.Sc. or M.B. of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold to be equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours in Mathematics and Natural Philosophy; provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of D.Sc. shall present a thesis or a published memoir or work,<sup>1</sup> to be approved by the Senatus on the recommendation of the Faculty of Science; provided that, if

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<sup>1</sup> The Thesis must be lodged and the fees paid before 1st December.

required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

#### DEGREE OF D. PHIL.

IV. Graduates who have taken the degree of M.A. in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 [General No. 6—Regulations for Degrees in Arts], or under the Regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of D.Phil. of the University in which they have prosecuted some special study under Ordinance No. 61 [General, No. 23—Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of M.A. with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of D.Phil., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent no less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of D.Phil. shall present a thesis or a published memoir or work,<sup>1</sup> which shall be an original contribution

<sup>1</sup> The Thesis must be lodged and the fees paid before 1st December.



to learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus ; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

#### DEGREE OF D.LITT.

VII. Graduates who have taken the degree of M.A. in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 [General No. 6—Regulations for Degrees in Arts], or under the Regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D.Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of D.Litt. of the University in which they have prosecuted some special study under Ordinance No. 61 [General No. 23—Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University ; provided—

(1) That they hold the degree of M.A. with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid ; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Litt., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of D.Litt. shall present a thesis



or a published memoir or work,<sup>1</sup> which shall be an original contribution to learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

#### GENERAL.

X. Notwithstanding and in supplement of the Regulations as to Examinations, sections XIV. and XV., the Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the Regulations for Degrees in Science, or of these Regulations for the Degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The degrees of D.Sc. in Mental Science or D.Sc. in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of D.Sc. in Mental Science or D.Sc. in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of D.Phil., or of D.Litt., as the case may be, under this Ordinance:—provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as M.A.

XIII. The degrees of D.Sc., D.Phil., and D.Litt. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

The fee to be paid for Examination for each of the degrees of D.Sc. D.Phil., and D.Litt. is ten guineas, payable when the thesis is lodged.<sup>1</sup> and the fee for each re-examination for each of the degrees is £5, 5s.<sup>1</sup>

Candidates for Examination or Graduation must pay the Matriculation

<sup>1</sup> The Thesis must be lodged and the fees paid before 1st December.

fee of £1, 1s.<sup>1</sup> Candidates for Graduation are required to enter their names and (if not previously registered) to pay the Registration fee ten days before the date of the Graduation Ceremonial.

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TIME-TABLES OF EXAMINATIONS AND DATES FOR PRESENTING  
CERTIFICATES AND FOR PAYMENT OF FEES.

*Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.*

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PRELIMINARY EXAMINATION.

The Preliminary Examinations are held in the Examination Hall in the University, in autumn and spring.

Each Candidate must pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

Candidates may obtain Schedules at the Matriculation Office, University (Old) Buildings, on and after 9th September 1902, and on and after 16th February 1903. The Schedules must be completed and lodged, along with the fees, not later than 18th September 1902 and 2nd March 1903 for the autumn and spring Examinations respectively.

Candidates may pay the fees personally or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed Union Bank of Scotland (High Street Branch), Edinburgh, but not by cheques on private accounts. When names are not entered and fees paid, or a Pass to the Examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of 10s. must be paid before the Candidate can be admitted to the Examination. This fee will not be received after Twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A Candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a Pass, for each periodical Examination at which he desires to appear. A Candidate is not held to be entered until his Schedule is lodged, the Fee paid, and a Pass to the Examination obtained.

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<sup>1</sup> The Thesis must be lodged and the fees paid before 1st December.

## TIME-TABLES FOR PRELIMINARY EXAMINATIONS FOR ARTS, SCIENCE, MEDICINE, AND MUSIC, AND FOR BURSARY EXAMINATIONS, 1902-1903.

		Medical Preliminary Examinations.	Arts, Science, Law (B.L.), and Music Preliminary Examinations and Bursary Examinations.
1902. Sept. 25	Thur.	... ..	Additional English for Ordinary Bursaries, <sup>1</sup> 9-12 Do. French do., <sup>1</sup> 1-2.30 Do. German do., <sup>1</sup> 3-4.30
,, 26	Fri.	English, 9-12 Latin, 3-6	English, 1st paper, <sup>134</sup> 9-11 Higher Latin, 1st paper, <sup>1</sup> 12-2 Latin for Second and Third Year Bursaries, 12-3 Lower Latin, <sup>34</sup> 3-6
,, 27	Sat.	Higher Mathematics, 1st paper, <sup>2</sup> 12-2 Greek, 3-6 Do., <sup>2</sup> 3-5	English, 2nd paper, <sup>134</sup> 9-11 Intermediate and Higher Mathematics, and Mathematics for First, Second, and Third Year Bursaries, 1st paper, <sup>1</sup> 12-2 Lower Greek, <sup>34</sup> 3-6 Anglo-Saxon, for Patterson Bursary, 9-12, 3-6 <sup>5</sup>
,, 29	Mon.	Higher Mathematics, 2nd paper, <sup>2</sup> 12-2 Mathematics, 3-6	Higher Latin, 2nd paper, <sup>1</sup> 9-11 Intermediate and Higher Mathematics, and Mathematics for First, Second, and Third Year Bursaries, 2nd paper, <sup>1</sup> 12-2 Lower Mathematics, <sup>34</sup> 3-6
,, 30	Tu.	French, 12-3 Do., <sup>2</sup> 12-2 Mechanics, <sup>2</sup> 3-6	Higher Greek, 1st paper, <sup>1</sup> 9-11 French, 1st paper, <sup>14</sup> 12-1.30 Greek for Second and Third Year Bursaries, 3-6 Dynamics, <sup>1</sup> 3-6

\* 1 Papers for the University Ordinary First Year Bursary Examination, for the Heriot University Bursaries both for men and for women, and for the Bursaries offered by the Edinburgh Association for the University Education of Women.

The Papers for the Heriot University Bursaries for Women Students of Medicine, are the Preliminary Examination Papers pure and simple : candidates for these Bursaries as such are not required to take any of the additional Bursary Papers.

<sup>2</sup> For Students under the Old Regulations.

<sup>3</sup> Papers for the Preferential Bursary Examination.

<sup>4</sup> Papers for Music Preliminary : for Italian for Music Preliminary half-an-hour more will be allowed.

<sup>5</sup> Not open in 1902.

		Medical Preliminary Examinations.		Arts, Science, Law (B.L.), and Music Preliminary Examinations and Bursary Examinations.
1902.				
Oct. 1	Wed.	German, 3-6 Do., <sup>2</sup> 3-5		Higher Greek, 2nd paper, <sup>1</sup> 9-11 French, 2nd paper, <sup>14</sup> 12-2 German, 1st paper, <sup>14</sup> 3-4.30 Logic and Psychology for Third Year Bursaries, 3-6
,, 2	Thur.	Moral Philosophy, <sup>2</sup> 9-11		German, 2nd paper, <sup>14</sup> 9-11 Italian, <sup>14</sup> 12-1.30, 3-5
,, 3	Fri.	Natural Philosophy, <sup>2</sup> 9-11 Logic, <sup>2</sup> 2-4		Elementary Physics, <sup>4</sup> 9-11 Logic, <sup>4</sup> 2-4 Additional Classics for First Year Open Bursaries, <sup>1</sup> Latin, 9-10.30; Greek, 10.30-12. Classics for Second and Third Year Bursaries, Latin, .9-10.30; Greek, 10.30-12. Additional Mathematics for Ordinary Bursaries, and for Second and Third Year Bursaries, <sup>1</sup> 2-5
,, 4	Sat.	... ..		Higher Geometry for John Welsh Bursaries and for Kelland Prize, 9-12 Sanskrit, Hebrew, Arabic, Syriac, Celtic. (See § IV. (3) of Regulations).—9-12 Gaelic for Mackinnon and Ardvorlich Bursaries, 12-3 Chemistry for Baxter of Balgavies Bursary, <sup>5</sup> 12-2
,, 10	Fri.	MEETING OF JOINT BOARD		At 10 A.M. each day.
,, 11	Sat.			
,, 14	Tues.			
1903.				
Mar. 27	Fri.	English, 9-12 Latin, 3-6		English, 1st paper, <sup>4</sup> 9-11 Higher Latin, 1st paper, 12-2 Lower Latin, <sup>4</sup> 3-6

<sup>1</sup> Papers for the University Ordinary First Year Bursary Examination, for the Heriot University Bursaries both for men and for women, and for the Bursaries offered by the Edinburgh Association for the University Education of Women.

The Papers for the Heriot University Bursaries for Women Students of Medicine are the Preliminary Examination Papers pure and simple: candidates for these Bursaries as such are not required to take any of the additional Bursary Papers.

<sup>2</sup> For Students under the Old Regulations.

<sup>4</sup> Papers for Music Preliminary.

<sup>5</sup> Not open in 1902.

		Medical Preliminary Examinations.	Arts, Science, Law (B.L.), and Music Preliminary Examinations and Bursary Examinations.
1903. Mar. 28	Sat.	Higher Mathematics, 1st paper, <sup>2</sup> 12-2 Greek, 3-6 Do., <sup>2</sup> 3-5	English, 2nd paper, <sup>4</sup> 9-11 Intermediate and Higher Mathematics, 1st paper, 12-2 Lower Greek, <sup>4</sup> 3-6
,, 30	Mon.	Higher Mathematics, 2nd paper, <sup>2</sup> 12-2 Mathematics, 3-6	Higher Latin, 2nd paper, 9-11 Intermediate and Higher Mathematics, 2nd paper, 12-2 Lower Mathematics, <sup>4</sup> 3-6
,, 31	Tu.	French, 12-3 Do., <sup>2</sup> 12-2 Mechanics, <sup>2</sup> 3-6	Higher Greek, 1st paper, 9-11 French, 1st paper, <sup>4</sup> 12-1.30 Dynamics, 3-6
April 1	Wed.	German, 3-6 Do., <sup>2</sup> 3-5	Higher Greek, 2nd paper, 9-11 French, 2nd paper, <sup>4</sup> 12-2 German, 1st paper, <sup>4</sup> 3-4.30
,, 2	Thur.	Moral Philosophy, <sup>2</sup> 9-11	German, 2nd paper, <sup>4</sup> 9-11 Italian, <sup>4</sup> 12-1.30, 3-5
,, 3	Fri.	Natural Philosophy, <sup>2</sup> 9-11 Logic, <sup>2</sup> 2-4	Elementary Physics, <sup>4</sup> 9-11 Logic, <sup>4</sup> 2-4
,, 10	Fri.	MEETING OF JOINT BOARD } At 10 A.M. MEETING OF JOINT BOARD } each day.	
,, 11	Sat.		

## FEES FOR DEGREE OF M.A.

Candidates for the Ordinary Degree pay for each of the subjects of Astronomy, Chemistry, Zoology, Botany, or Geology £1, 1s., and for each of the other subjects 15s.

Those who fail in the Examinations pay 10s. 6d. for re-examination in each subject.

Candidates for the Degree, with Honours, pay the same total fees as for the Ordinary Degree.

DEGREE EXAMINATIONS.<sup>5</sup>

*Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.*

Candidates may obtain Schedules at the Matriculation Office.

<sup>2</sup> For Students under the Old Regulations.

<sup>4</sup> Papers for Music Preliminary.

<sup>5</sup> When names are not entered and fees paid, or a Pass to the Examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination. This fee will not be received after twelve o'clock of

Schedules must be lodged, Certificates shown, and Fees paid as follows :—

1. For the Examinations in October 1902, *not later than 2nd October*.<sup>1</sup>

2. For the Examinations in Spring 1903 Schedules must be lodged<sup>1</sup> and Fees paid *not later than 3rd March*, and the Matriculation Tickets and Class Certificates must be shown as follows :—For the Examinations in March at least *two clear days before* the date of the Examination in each subject ; for the Examinations in April, *not later than 27th March*.

3. For the Examinations in Chemistry and Geology in Summer 1903, Schedules must be lodged and Fees paid *not later than 3rd July*, and Certificates shown on *Wednesday, 15th July*.

When the Candidate has exhibited his Matriculation Tickets and the Certificates for Examination, the Clerk will stamp on the Receipt for the Fee the words, "Certificates examined," which entitle the Candidate to admission to the Examination Hall.

Candidates for Examination or for Graduation must be Matriculated Students of the Academic year.

Every Candidate for Graduation must produce certificates of having passed the necessary Examinations and pay the Fee of £1 for Registration as a Member of the General Council *at least one clear day before the date of Graduation*.<sup>2</sup>

The fees for Matriculation, Examinations for Degrees, and Registration of Graduates as Members of the General Council, are payable at the Matriculation Office, University. Candidates may pay the fees personally, or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh*," but not by cheques on private accounts.

Degrees are conferred by the Chancellor or the Vice-Chancellor of the University. They are not conferred *in absentia*, except on very special cause shown. Candidates must appear in Academic costume, with the appropriate hood.<sup>3</sup>

the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A Candidate must enter his Name and pay the Fee, or, when the Fee has been previously paid, obtain a Pass, for each periodical Examination at which he desires to appear.

<sup>1</sup> Candidates for Special Examination in Greek for Honours in Mental Philosophy must enter their names, and state which dialogue of Plato they offer, one month before the date of the examination.

<sup>2</sup> See footnote 5, page 130.

<sup>3</sup> Black silk lined with *white*.

## TIME-TABLES FOR M.A. EXAMINATIONS FOR 1902-1903.

		M.A. Pass Examinations. <sup>1</sup>	M.A. Honours Examinations. <sup>1</sup>
1902.			
Oct. 7	Tu.	English, 9-11, 11.30-1.30 Latin, 2.30-4.30	
„ 8	Wed.	Latin, 9-11 Greek, 11.30-1.30 <sup>2</sup> , 2.30-4.30	
„ 9	Th.	Mathematics, 9-11, 11.30-1.30 Natural Philosophy, 2.30-4.30	
„ 10	Fri.	Natural Philosophy, 9-11 Logic, 11.30-1.30, 2.30-4.30	
„ 11	Sat.	Moral Philosophy, 9-11, 11.30-1.30 History, 2-4	
„ 13	Mon.	History, 9-11 French, 11.30-1.30, 2-4	
„ 14	Tu.	CLASSES OPEN German, 9-11, 11.30-1.30 German Essay, 2-3 French Essay, 3-4	
„ 15	Wed.	Education (M.A. & Diploma), 9-11, 11.30-1.30	
„ 16	Th.	Education (Diploma only), 9-11.30; Zoology, 12-2; Botany, 2.30-4.30	
„ 27	Mon.	Constitutional Law & History, 2-4	
„ 28	Tu.	Roman Law, 9-1 Constitutional Law & History, 2-4	
„ 30	Th.	Philosophy of Law, 9-11 Public International Law, 11.30-1.30 Political Economy, 2-4	
„ 31	Fri.	Political Economy, 9-11	
1903.			
Mar. 16	Mon.	Constitutional Law & History, 2-4	

NOTE.—In the Examinations for the Degree of M.A. in Roman Law, Public Law, and Constitutional Law and History, candidates who intend to proceed later to the Degree of LL.B. must pass on the LL.B. standard.

<sup>1</sup> The order of the papers set at the particular hours fixed for the general Honours Subjects, within any department or group, may be varied at the discretion of the Examiners.

It is impossible to avoid clashing between the hours of Examinations in the Pass, Honours and Scholarship subjects, and Candidates should carefully consider early in their Curriculum the arrangements for these Examinations, in order, so far as possible, to avoid clashing.

<sup>2</sup> Also Special Examination in Greek for Candidates for Honours in Mental Philosophy who have not included Greek as a Subject in the Examinations for the ordinary Degree of M.A.



		M.A. Pass Examinations. <sup>1</sup>	M.A. Honours Examinations. <sup>1</sup>
1903. Mar. 17	Tu.	Roman Law, 9-1 Constitutional Law & History, 2-4	
„ 19	Th.	Philosophy of Law, 9-11 Public International Law, 11.30-1.30 Political Economy, 5-7 Sanskrit, 9-11, 11.30-1.30 Arabic and Syriac, 9-11, 11.30-1.30	
„ 20	Fri.	Political Economy, 5-7	
„ 23	Mon.	Chemistry, 10-12 Geology, 1-3 Practical Chemistry Examination and Oral Examinations may begin	
„ 24	Tu.	Botany, 10-12 Zoology, 1-3	
„ 25	Wed.	Celtic, 9-11, 11.30-1.30 Hebrew, 2.30-4.30	
„ 26	Th.	Hebrew, 9-11 History, 11-1, 2-4	
„ 27	Fri.	English, 9-11 Latin, 12-2 Education, (M.A. & Diploma), 2.30-4.30, 5-7	Economic Science, 9-12, 2-5
„ 28	Sat.	English, 9-11 Mathematics, 12-2 Logic, 2.30-4.30 Education for Schoolmaster's Diploma only (3rd paper), 5-7	Economic Science, 9-12
„ 30	Mon.	Latin, 9-11 Mathematics, 12-2 Logic, 2.30-4.30	English (Lit.), 9-12, 2-5 History (Constit.), 9-12, 2-5 Logic, 9-12, 2-5 Classics (Optional Subject): Classical Archæology, first paper, 2-5
„ 31	Tu.	Greek, 9-11, French, 11.30-1.30 Astronomy, 2-4, 4.30-6.30	English (Lit.), 9-12, 2-5 Logic, 9-12 Moral Philosophy, 2-5

<sup>1</sup> See footnote 1, page 132.

		M.A. Pass Examinations. <sup>1</sup>	M.A. Honours Examinations. <sup>1</sup>
1903. Mar. 31	Tu.		History (Constit.), 9-12, 2-5 Classics, 9-12, 2-5 (9-12 Optional Subjects)
Apr. 1	Wed.	Greek, 9-11  French, 12-2 German, 3-5	Pure Mathematics, 9-12 English (Lang.), 9-12, 2-5 Moral Philosophy, 9-12, 2-5 Classics, 9-12, 2-5 Modern Languages, 9-12, 2-5
,, 2	Th.	German, 9-11 Moral Philosophy, 11.30-1.30, 3-5	Pure Mathematics, 9-12, 2-5 History, 9-12, 2-5 English (Hist.), 9-12, 2-5 Classics, 9-12, 2-5 Modern Langs., 9-12, 2-5 Philosophy (Special Sub- jects), 9-12
,, 3	Fri.	Natural Philosophy, 9-11, 11.30-1.30 French Essay, 2-3 German Essay, 3-4	Pure Mathematics, 9-12 Natural Philosophy, 2-5 History, 9-12, 2-5 Classics, 9-12, 2-5 Mod. Languages, 9-12, 2-5
,, 4	Sat.	Archæology and Art, 9-11, 11.30-1.30	Natl. Philosophy, 9-12, 2-5 History of Art, 9-12, 2-5 Classics, 9-12, 2-5 Mod. Languages, 9-10.30, 11.30-1
,, 11	Sat.		CEREMONIAL at 10 A.M.
July 17	Fri.	Chemistry, 10-12 Geology, 1-3 Practical Chemistry and Oral Examinations may begin	TION SERVICE at 12 noon.
,, 25	Sat.	GRADUATION	CEREMONIAL.

<sup>1</sup> See footnote 1, page 132.

PASS EXAMINATIONS FOR MASTER OF ARTS.

(See Time-Tables, Pages 132-134.)

The subjects for the Examinations for the Ordinary Degree October 1902 and April 1903 are as follows :—

I.—DEPARTMENT OF LANGUAGE AND LITERATURE.

1. *Latin for October 1902 and April 1903.*

Virgil, *Aen.* viii.—Horace, *Odes*, iv. and *Epodes* (Page's Edition)  
—Martial, i.-iii. (Sellar and Ramsay's selections).—Cicero, *Philippics* i., ii.—Tacitus, *Histories* ii.

Translation from an Author or Authors not prescribed. Latin prose composition.

*Roman History.*—A general knowledge of Roman History to the death of Trajan, and a more special study of the times or events to which prescribed books relate.

*Roman Literature.*—A general knowledge of the course of Roman Literature to the death of Trajan, and a special knowledge of the Lives and Works of Virgil, Horace, Cicero, Martial, and Tacitus.

*Every Candidate is required to satisfy the Examiners in translating English into Latin prose.*

2. *Greek for October 1902 and April 1903.*

Homer, *Iliad* xvi.—Aristophanes, *Acharnians*.—Herodotus, B. vi.—Plato, *Protagoras*.

*Greek History.*—A general knowledge of Greek History to the death of Alexander, and a more special knowledge of the Persian Wars.

*Greek Literature.*—A general knowledge of Greek Literature to the end of the 4th cent. B.C., and a more special knowledge of the prescribed Authors.

Laws of Hexameter and Iambic verse.

3. *English for October 1902 and for April and October 1903.*

The Principles of English Composition and Style: Class Lectures. History of the English Language: The First Five Chapters of Morris's "Historical Outlines of English Accidence." History of English Literature: Lectures, with the Professor's "Short History of English Literature," and the portions of Hallam's "Literature of Europe" that relate to English writers.

*Special Books for October 1902*—Shakespeare, *Hamlet* and *As You Like It*—Chaucer, *Prologue to Canterbury Tales*—Spenser, *Faerie Queene*, Book iii.—Milton, *Samson Agonistes*—Browne, *The Garden*

## 136 Graduation in Arts—Pass Examinations, 1902-1903.

of *Cyrus*—Addison, *Selected Essays*—Cowper, *Selected Poems*—Coleridge, *Selected Poems*—Tennyson, *The Holy Grail*.

*Special Books for April and October 1903*—Shakespeare, *King Lear* and *Merchant of Venice*—Chaucer, *Knight's Tale*—Spenser, *Faerie Queene*, Book iv.—Milton, *Areopagitica* and *Tractate of Education*—Dryden, *The Hind and the Panther*—Thomson, *Castle of Indolence*—Johnson, *Rasselas*—Shelley, *Adonais*.

### 4. French for October 1902.

Clédat, *Morceaux choisis du Moyen Age*—Brachet, *16<sup>e</sup> Siècle*—Corneille, *Cinna*—Molière, *Misanthrope*, *Femmes Savantes*—Marcou, *Prosateurs français*—Lanson, *Lettres choisies du 17<sup>e</sup> Siècle*—Lanson, *Lettres choisies du 18<sup>e</sup> Siècle*—Voltaire, *Siècle de Louis XIV.*—Victor Hugo, *Les Châtiments*, *Hernani*, *Chefs d'œuvre en Prose*—Jullian, *Extraits des Historiens français*—Taine, *Notes sur l'Angleterre*—Augier, *Le gendre de M. Poirier*—*Annales Politiques et Littéraires*, 1901-2.

*Books recommended*:—Saintsbury, *History of French Literature*—Lanson *Littérature française*—Rimbaud, *Civilisation française*—Mignet, *Révolution française*.

Passages from French Authors not prescribed. French prose composition. A general knowledge of the development of the French language. A general knowledge of the growth of French civilisation, with a more minute knowledge of the authors prescribed.

*Every Candidate is required to satisfy the Examiners in translating English into French prose.*

### 5. French for April and October 1903.

Clédat, *Morceaux choisis du Moyen Age*—Saint-Simon, *Scènes et Portraits*—La Bruyère, *Caractères*.—Sensine, *Chrestomathie française* (Poésie)—Balzac, *César Birotteau*, *Cousin Pons*—V. Hugo, *Chefs-d'œuvre dramatiques*—Lavissee, *Petite Histoire de France*—Foncin, *La première année de Géographie*—Mazel, *Synergie Sociale*—La Fontaine, *Fables*.

*Books recommended*:—Lanson, *Littérature française*—Saintsbury, *History of French Literature*.

Oral Examination.—Subject: Legouvé's *L'Art de la Lecture*.

Passages from French Authors not prescribed. French prose composition. A general knowledge of the development of the French language. A general knowledge of the growth of French civilisation, with a more minute knowledge of the authors prescribed.

*Every Candidate is required to satisfy the Examiners in translating English into French prose.*

### 6. German for October 1902.

*Der Nibelunge Not* (Sammlung Götschen)—Brant, *Luther, Sachs, Fischart*, ed. Pariser (Götschen)—*Deutsche Heldensage* (Sammlung

Göschen)—Goethe, *Egmont*, ed. Buchheim (Clar. Press)—Schiller, *Die Jungfrau von Orleans*, ed. Buchheim (Clar. Press)—H. v. Kleist, *Prinz von Homburg*, ed. Kade (Graeser)—G. Freytag, *Die verlorene Handschrift*, ed. Hewett (Macmillan)—Riehl, *Die Ganerben*, ed. Wolstenholme (Pitt Press)—Fontane, *Vor dem Sturm*, ed. Weiss (Macmillan)—*Deutsche Lyrik*, ed. Buchheim (Macmillan)—H. Seidel, *Der Schatz und Anderes* (Liebeskind).

Passages from German Authors not prescribed. German prose composition and essay. A general knowledge of the development of the language. A general knowledge of German History, and of the History of German Literature, with a more minute knowledge of the Authors prescribed and of the period 1740-1830.

Oral examination on "Jungfrau" and "Vor dem Sturm."

Books recommended for reference :—O. Weise, *Unsere Muttersprache*—D. Müller, *Leitfaden der deutschen Geschichte*—Günther, *Deutsche Kulturgeschichte* (Göschen)—G. Klee, *Grundzüge der deutschen Literaturgeschichte*—Roquette, *Geschichte der deutschen Dichtung*—J. G. Robertson, *History of German Literature*.

Every Candidate is required to satisfy the Examiners in translating from and into German.

#### German for April and October 1903.

*Walther von der Vogelweide* ed. Günther (Göschen)—\* Luther, *Murner und Kirchenlied*, ed. Berlin (Göschen)—*Deutsche Kulturgeschichte*, Günther (Göschen)—\* *Kirchenlied und Volkslied*, ed., Ellinger (Göschen)—\* Goethe, *Iphigenie*, ed. Breul—\* Schiller, *Wilhelm Tell*, ed. Breul—Gutzkow, *Uriel Acosta*—H. Seidel, *Vorstadtgeschichten*—J. Trojan, *Für gewöhnliche Leute*—\* Jacobowski, *Neue Lieder fürs Volk*—\* Marg. Henschke, *Deutsche Prosa*. Texts marked \* are read or interpreted in class.

Translation, Composition, Essay, History, Philology, Literature, as for 1902. Oral examination on "Tell" and Seidel.

#### 7. Sanskrit and Comparative Philology.

Hitopadeśa (Johnson's ed., 1847), book ii. — Nalopākhyānam (Bühler's ed.), cantos 1-12—Sanskrit Grammar—Sanskrit prose composition.

A general knowledge of the history of Sanskrit Literature.

#### 8. Semitic Languages.

*Hebrew*.—1. Questions in Grammar. 2. Translation into Hebrew Prose. 3. Judges, Zechariah, Psalms, book v. ; short passage from a historical book to translate at sight. 4. *Hebrew History and Literature* during the period of the Monarchy.

*Syriac*.—1. Questions in Grammar. 2. Translation into Syriac Prose. 3. *Book of Acts* in the Peshitta Version; *Syriac Chronicle of Barhebraeus* (extracts ix. and x. of Rœdiger's *Chrestomathia Syriaca*); *Poems of Ephram Syrus* (*ibid.*, extract xviii.); *Chronicle of Joshua the Stylite* (ed. Wright), chaps. vii.-xxxii; short passage of easy prose to translate at sight. 4. History of the Syriac Versions of the Scriptures in detail (Wright's *Short History of Syriac Literature*, pp. 1-107).

*Arabic*.—1. Questions in Grammar. 2. Translation into Arabic Prose. 3. Bruennow's *Chrestomathy of Arabic Prose Pieces*, pp. 1-22, 44-55; *The Kor'an*, Sûra iii.; *Kalilah wa-Dimnah* (Beyrout Edition, 1888), pp. 105-123; short passage of easy prose to translate at sight. 4. *Arabian History*.—Sir W. Muir's, *The Caliphate: its Rise, Decline, and Fall*.—Chapters 1-45 and 64-67.

### 9. *Celtic*.

*Modern Gaelic* (Scottish and Irish)—Ossian, Temora, Books i.-iv.; the Poems of John Macdonald (Iain Lom), and Duncan MacIntyre, or Keating's Three Shafts of Death.

*Old Gaelic*.—Longes Mac n-unsceig and Tochmarc Etaine (Windish's *Irische Texte*).

Passages in Old and Modern Gaelic (both Scottish and Irish) from Authors not prescribed.

Translation from English into Gaelic Prose (Scottish or Irish).

*History and Literature*.—The History of Gaelic Literature from 1560 A.D. to the present time.

## II.—DEPARTMENT OF MENTAL PHILOSOPHY.

### 1. *Logic and Psychology*.

The elementary doctrines of Logic and Psychology; and the History of Philosophy so far as treated in the Class Lectures.—Locke's *Essay*, Book ii., Chapters 1-12, and Chapter 23; Professor Fraser's "*Selections from Berkeley*" (fifth edition)—"Editor's Introduction," "Principles of Human Knowledge," "Divine Visual Language: a Dialogue"; Hume's *Enquiry concerning Human Understanding*.—Sections 1-7 inclusive.

### 2. *Moral Philosophy*.

The Professor's "Ethical Principles"; Butler's Three Sermons "On Human Nature"; Mill's "Utilitarianism"; Spencer's "Data of Ethics"; Sidgwick's "Outlines of the History of Ethics."

### 3. *Commercial and Political Economy*.

The subjects of examination are: The Lectures of the Professor; Mill's *Principles of Political Economy*, Books i.-iii.; Marshall's *Economics of Industry* (new edition); Adam Smith's *Wealth of*

*Nations*, Book iv.; Professor Nicholson's *Money and Monetary Problems* (5th edition),—*The Treatise on Money*.

4. *Theory, Art, and History of Education.*

*Theory and Art.*—Subjects of examination: Lectures of the Professor; *Locke's Thoughts* (parts which deal with moral training); *Locke on the Conduct of the Understanding*; *Language and Linguistic Method in the School*, by Professor Laurie (3rd edition); *Comenius' Great Didactic*, as in "*The Educational Life and Writings of Comenius*" by Professor Laurie (last edition).

The Theory or Science of Education comprises the Psychology and Ethics in Laurie's "*Institutes of Education*" (2nd edition).

*History.*—A knowledge of Bacon and Ratke, as in the introduction to Laurie's *Comenius*, last edition; and a general knowledge of Rousseau and Pestalozzi, as in Compayrè's *Manual* and Quick's *Educational Biographies*.

5. *Philosophy of Law.*  
*Vide under Faculty of Law.*

III.—DEPARTMENT OF SCIENCE.

1. *Mathematics.*

Arithmetic.—Euclid, Books i., ii., iii., iv., vi., and xi., or their equivalent, with their application to Mensuration.—Algebra, Trigonometry, Conic Sections, Geometrical and Analytical.

*Candidates must show sufficient knowledge in each of these subjects.*

2. *Natural Philosophy.*

Elementary Dynamics and Experimental Physics.

*Candidates must show sufficient knowledge both of Dynamics and of Experimental Physics.*

3. *Practical Astronomy.*

The Class Lectures.—Use of the Sextant, Transit-Circle, Wire and Ring Micrometers.—Young's General Astronomy; Main's Practical and Spherical Astronomy, or corresponding portions of Brünnow's or Chauvenet's Astronomy. Sir John Herschel's *Outlines of Astronomy*, omitting Part IV.

4. *Chemistry.*

Chemical changes as distinguished from physical changes. Elements; compounds; mixtures. Laws of chemical combination by weight and by volume. The atomic theory. Atoms; molecules. Avogadro's Hypothesis. Molecular weights of gaseous and volatile substances. Atomic weights. Law of Dulong and Petit. Chemical Notation—Symbols; formulæ; equations. Simple chemical calculations.

The non-metallic elements and their chief compounds; especially the compounds of oxygen, of hydrogen, and of chlorine, with the other



non-metals. The more important inorganic acids. The atmosphere. Combustion. Oxidation and reduction.

The following metallic elements and their chief compounds; especially those with oxygen, with chlorine, and with sulphur: Gold, platinum, silver, mercury, lead, antimony, tin, copper, bismuth, zinc, cadmium, iron, aluminium, chromium, manganese, barium, strontium, calcium, magnesium, potassium, sodium.

The following salts: the ammonium salts; the more important sulphates, sulphites, thiosulphates, nitrates, nitrites, carbonates, bromides, iodides, iodates, phosphates, borates, silicates.

The relations of bases, acids, and salts. Electrolysis. Quantivalence. The periodic law.

The metallurgy of silver, mercury, copper, lead, tin, zinc, iron (including cast iron and steel). Alloys, such as brass, bronze, solder, type-metal. Amalgams.

The manufacture of aluminium, magnesium, potassium, sodium, glass, porcelain, mortar, gunpowder, sulphuric acid, sodium carbonate and bicarbonate, caustic soda, bleaching powder and chlorates, wrought-iron, steel, white lead.

Classification of Carbon Compounds. Marsh Gas and its Homologues. Chloroform. Methyl and Ethyl Alcohols and Ethers. Substituted ammonias and ammonium salts. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Acetylene, Oxalic Acid, Lactic Acid. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Distillation of Wood and of Coal. Benzene, Benzoic Acid, Phenol, Salicylic Acid, Oil of Bitter Almonds. Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea, Uric Acid.

### 5. *Practical Examination.*

(a) Simple inorganic preparations on a small scale, especially such as involve the formation and decomposition of the commoner salts.

(b) The qualitative examination of single substances. The substances given for examination may be:—Salts in solution; solid salts soluble in water; carbonates, sulphides, and oxides, insoluble in water but soluble in acids; metals. The salts given are confined to those derived from the metals and salt radicals named in the following lists:—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Cadmium, Bismuth, Antimony (*Tartar Emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Orthophosphate, Arsenate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

(c) Acidimetry and Alkalimetry.

(For further information see the *Practical Chemistry Class Book* "Salts and their Reactions," published by James Thin.)

6. *Zoology.*

(a) The General Principles of Biology.

(b) The distinctive characters of the Invertebrate groups and the structure, habits, &c., of *Amœba*, *Paramœcium*, *Hydra*, *Lumbricus*, *Nereis*, *Hirudo*, *Anodon*, *Buccinum*, *Helix*, *Nephrops*, and *Periplaneta*.

(c) The distinctive characters of the Vertebrate groups and the structure, habits, &c., of *Gadus*, *Rana*, *Columba*, and *Lepus*.

(d) A general knowledge of the orders of Vertebrata.

(e) The outlines of the development of *Amphioxus*, *Scyllium*, *Rana*, *Gallus*, and *Lepus*, and of the characteristic larval forms of *Echinodermata*, *Crustacea*, *Annelida*, and *Mollusca*.

(f) The Geographical Distribution of Animals.

7. *Botany.*

The characteristic features of the following groups and classes of the vegetable kingdom :—

Thallophyta [*Schizophyta*, *Algæ*, *Fungi*]; *Muscineæ* [*Hepaticæ*, *Musci*]; *Pteridophyta* [*Filicineæ*, *Equisetineæ*, *Lycopodineæ*]; *Phanerogamæ* [*Gymnospermæ*, *Angiospermæ* (*Monocotyledones*, *Dicotyledones*)].

The fundamental facts and principles of *Organography*, *Physiology*, and *Geographical Distribution*.

The life-history of the following plants :—*Bacterium*, *Nostoc*, *Spirogyra*, *Saccharomyces*, *Mucor*, *Vaucheria*, *Agaricus*, *Collema*, *Puccinia*, *Claviceps*, *Eurotium*, *Marchantia*, *Fucus*, *Polysiphonia*, *Funaria*, *Aspidium*, *Equisetum*, *Selaginella*, *Pinus*, *Cycas*, *Scilla*, *Capsella*, *Helianthus*, *Ulmus*, *Quercus*.

The characters of plants belonging to the chief British natural orders of *Phanerogamæ*.

8. *Geology including Mineralogy.*

1. *Dynamical Geology*.—The nature and operation of geological agents :—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy*.—Characters of the chief rock-forming minerals.

3. *Petrology*.—Megascopic and Microscopic Characters, Composition, Origin and Distribution of the more important Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Metamorphism, Faults, Overlap Unconformity.

5. *Palæontological Geology*.—Characters and distribution in time, of the more important Genera and Orders found fossil in Britain.

6. *Stratigraphical Geology*.—History of the Geological Systems of the British Islands.

7. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.

#### IV.—DEPARTMENT OF HISTORY AND LAW.

##### 1. *History.*

##### *Subject of Examination for 1902-1903.*

General British History, viz. :—(1) History of the British Isles from B.C. 55 to A.D. 1837, in outline ; (2) The same from 1603 to 1689, in detail.

The Examiners will attach greater importance to a grasp of principles than to mere knowledge of details.

Books recommended :—(a) For the *General History*, Gardiner's "Student's History of England," or Ransome's "Advanced History of England," Green's "Short History of the English People," Bright's "History of England," Hume Brown's "History of Scotland," Morris' "History of Ireland." (b) For the *Special Period*, Gardiner, "Puritan Revolution" (Epoch Series); Hallam, "Constitutional History of England"; Harrison, "Oliver Cromwell"; Macaulay, "History of England"; Burton, "History of Scotland."

##### 2. *Archæology and Art (History of).*

The subjects for examination will be the Class lectures, the Professor's Manual, "The Fine Arts," Conway's "Dawn of Art in the Ancient World," Tarbell's "History of Greek Art," Poynter's "Classic and Italian Painting." Candidates will be expected to show some knowledge of the original authorities for the different periods of Art History.

##### 3. *Constitutional History and Constitutional Law.*

Subjects of examination : Constitutional History and Law of England, as treated of in the Lectures, and in the works of Stubbs, Hallam, and May ; and that of the U.S. of America, of France, of Germany, and of Switzerland, as treated of in the Lectures, and in the works of Bancroft, Bryce, Adams and Cunningham, Dareste, Demombynes, &c.

##### 4. *Roman Law.*

Subjects of examination : (1) The history of the law from the foundation of Rome to the time of Justinian, and (2) a general knowledge of the principles and doctrines of the Law. Gains' Institutes and Muirhead's "Historical Introduction," are recommended for the historical part, and Justinian's Institutes, Bk. i. to Bk. iv., Tit. viii. (inclusive), must be professed for the doctrinal part.

##### 5. *Public Law.*

##### *I. The Philosophy of Law.*

Green, Principles of Political Obligation ; Ritchie, Natural Rights ; Lorimer, Institutes of Law ; Ahrens, Cour de Droit Naturel ; Bluntschli, The Theory of the State. The Student's Austin ; Holland, Jurisprudence ; Pollock, First Book of Jurisprudence ; Sir H. Maine's works.

## EXAMINATIONS FOR GRADUATION IN ARTS WITH HONOURS.

(Examinations for Honours are held in March-April only.)

(See Time-Table of Examinations, pp. 132-134.)

### I.—CLASSICS.

*N.B.*—It should be understood that a general acquaintance with the Greek and Latin writers of the classical age will be expected from all candidates; and unseen passages from other than the prescribed authors will form an important part of the examination.

The subjects of Examination for the Degree of Master of Arts with Honours in 1903 and 1904 are as follows:—

#### 1. *Latin for 1903.*

Horace—Ennius and Lucilius (in Merry's Fragments of Roman Poetry)—Catullus (R. Ellis' Selection)—Martial, i.-vi. (Sellar and Ramsay's Selection)—Cicero, *Letters to Atticus*, i.-vi.—Tacitus, *Annals*, i.-ii.—Quintilian, *Inst. Orat.*, x.

Latin prose composition—Translation from Authors not prescribed.

Candidates may also offer Verse Composition.

*Roman History.*—A general knowledge of Roman History to the death of Trajan, and a more special knowledge in connection with the Historical Books prescribed.

*Roman Literature.*—A general knowledge of the course of Roman Literature, and a more minute knowledge of the Lives and Writings of the Authors prescribed.

#### 2. *Latin for 1904.*

Virgil—Plautus, *Aulularia* and *Captivi*—Statius, *Silvæ*, i. 4, ii. 2, 4, 7, iii. 2, 3, 5, iv. 3, 6, v. 3—Juvenal (omitting Satires, 2, 6, 9, 15 and 16)—Tacitus, *Annals*, iii.-iv.—Quintilian, *Inst. Orat.*, ix.

Latin prose composition—Translation from Authors not prescribed.

Candidates may also offer Verse Composition.

*Roman History.*—A general knowledge of Roman History to the death of Trajan, and a more special knowledge in connection with the historical books prescribed.

*Roman Literature.*—A general knowledge of the course of Roman Literature, and a more minute knowledge of the Lives and Writings of the Authors prescribed.

#### 3. *Greek for 1903.*

Homer, *Iliad*, i.-xii.—Homeric *Hymns*—Æschylus, *Persæ*, *Septem c. Thebas*—Demosthenes, *De Corona*—Aristotle, *Poetics*—[Longinus] *On the Sublime* (Vahlen's text).

Greek prose composition—Translation from Authors not prescribed.

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Candidates may offer Verse Composition.

*Greek History*.—A general knowledge of Greek History to the death of Alexander, and a more minute knowledge of the development of the Athenian constitution (with special reference to Aristotle's *Constitution of Athens*).

*Greek Literature*.—A general knowledge of Greek Literature, and a more minute knowledge of the Authors prescribed.

*Greek Grammar*.—As a special subject, Monro's *Homeric Grammar* (the part relating to Homeric Syntax).

### 4. *Greek for 1904.*

Homer, *Iliad*, xiii.-xxiv.—Smyth, *Greek Melic Poets* (Macmillan)—Sophocles, *Trachiniae*—Aristotle, *Ethics*, i.-iv. and x.—Polybius, *History of the Achæan League*, Capes (Macmillan)—[Longinus] *On the Sublime* (Robert's text).

Greek prose composition—Translation from Authors not prescribed. Candidates may offer Verse Composition.

*Greek History*.—A general knowledge of Greek History to the death of Alexander, and a more special knowledge in connection with the prescribed portions of Polybius.

*Greek Literature*.—A general knowledge of Greek Literature, and a more minute knowledge of the Lives and Writings of the Authors prescribed.

*Greek Grammar*.—As a special subject, Monro's *Homeric Grammar* (the part relating to Homeric Syntax).

### *Optional Subjects.*

#### 1. *Comparative Philology for 1903 and 1904.*

Candidates who take Comparative Philology as their optional subject for Graduation with Honours in Classics, will be examined in the following branches of Linguistic Science:—(a) Science of Language, including the history and general results of Linguistic research. (b) Principles of Indo-European Comparative Philology, with special reference to the Greek and Latin Languages. (c) Etymology of Greek and Latin.

Books recommended for private study:—(a) M. Müller, *Lectures on the Science of Language*. W. D. Whitney, *Language and the Study of Language*. B. Delbrück, *Introduction to the Study of Language*. (b) P. Giles, *Short Manual of Comparative Philology*.

Also recommended for reference:—King & Cookson, *Principles of Sound and Inflection*. Brugmann & Stolz, *Greek and Latin Grammar* (Iwan Müller's *Handbuch der Klassischen Alterthumswissenschaft*, vol. ii.). Blas, *Pronunciation of Ancient Greek* (Cambridge University Press). (c) Curtius, *Principles of Greek Etymology*, Book ii.

#### *Classical Archaeology for 1903 and 1904.*

1. The general history of the Arts of Form in Greece. To be

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studied in Overbeck's "Schriftquellen" and Murray's "Handbook of Greek Archæology."

2. The history of Greek Sculpture. To be studied in E. Gardner's "Handbook of Greek Sculpture" and Brunn-Bruckmann's Photographs.

*Ancient Philosophy for 1903.*

The Pre-Socratic Philosophy, with original authorities as quoted in Ritter and Preller, *Historia Philosophiæ Graecæ*; The Sophists and Socrates; Plato, *Phædo*, together with the outlines of the Platonic Philosophy.

Books recommended:—Zeller, *Pre-Socratic Philosophy*, vols. i. and ii. (Translation by Alleyne). Burnet, *Early Greek Philosophy*.

*Or, as an alternative:*

The Philosophy of Nature, Psychology and Ethics of Aristotle, with special reference to Aristotle, *Physics*, bks. i., ii.: *De Anima*, bk. i. ch. 1; bk. ii. chs. 1-6, 12; bk. iii. chs. 1-5; *Nic. Ethics*, bks. i.-iv. and x.

*Ancient Philosophy for 1904.*

The Pre-Socratic Philosophy, with original authorities as quoted in Ritter and Preller, *Historia Philosophiæ Graecæ*; The Sophists and Socrates; Plato, *Phædo*, together with the outlines of the Platonic Philosophy.

Books recommended:—Zeller, *Pre-Socratic Philosophy*, vols. i. and ii. (Translation by Alleyne). Burnet, *Early Greek Philosophy*.

*Or, as an alternative:*

The Logic, Philosophy of Nature, and Psychology of Aristotle, with special reference to Aristotle, *Physics*, bks. i., ii.: *De Anima*, bk. i. ch. 1; bk. ii. chs. 1-6, 12; bk. iii. chs. 1-5; Trendelenburg, *Elementa Logices Aristoteleæ*.

*Ancient History for 1903.*

*Greek History*, 490-429 B.C., with Herodotus books, vii.-ix.; Hicks and Hill, *Manual of Greek Historical Inscriptions*, part 2; Thucydides books, i. and ii.

*Or, as an alternative:*

*Roman History*, 44 B.C.-14 A.D. (with special reference to the Establishment of the Principate, by Augustus), with Cicero's Letters (Watson's Selections), part v.; Suetonius, *Augustus*; The Marmor Ancyranum; Tacitus *Annals*, bk. i. (so far as it bears on the constitution of the Principate).



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### *Ancient History for 1904.*

*Greek History.*—The development of the Athenian Constitution and its working, as illustrated by contemporary records ; Aristotle's *Respublica Atheniensium*.

*Or, as an alternative :*

*Roman History*, B.C. 70-44, with Cicero's Letters (Watson's Selections), parts i. and ii. Caesar, Civil War.

### II.—MENTAL PHILOSOPHY.<sup>1</sup>

#### 1. *Logic and Metaphysics for 1903 and 1904.*

A competent knowledge of the History of Philosophy and of the more advanced doctrines of Logic and Psychology, and a special knowledge of the following books :—

Plato, *Sophist*—Aristotle, *Metaphysics*, bk. i. : and *De Anima*, bk. i. ch. 1 ; bk. ii. chs. 1-6, 12 ; bk. iii. chs. 1-5—Spinoza, *Ethics*—Hume, *Treatise on Human Nature*, Book i. (Of the Understanding)—Kant, *Critique of Pure Reason*—Hegel's *Logic*, in Professor Wallace's translation, chs. i.-vi.—Lotze's *Metaphysics*, bk. i. (Clarendon Press)e.

#### 2. *Moral Philosophy for 1903 and 1904.*

A general knowledge of the history of ethical theory, and a more special knowledge of the following books :—

Plato, *Republic*—Aristotle, *Ethics*—Kant, *Theory of Ethics* (Abbott's trans.)—Hegel, *Philosophy of Right* (Dyde's trans.)—Sidgwick, *Methods of Ethics*—Green, *Prolegomena to Ethics*—Stephen, *Science of Ethics*.

#### 3. *One of the following special subjects to be selected by the Candidate—*

(a) Greek Philosophy. (b) Advanced Psychology. (c) Political Philosophy.

(a) Greek Philosophy for 1903 will include (1) a more detailed knowledge of the Greek books set in the general list ; (2) Plato, *Philebus* ; (3) Aristotle, *Posterior Analytics*.

(b) Advanced Psychology for 1903 (1) a more detailed knowledge of Ward's *Psychology*, and James' *Principles of Psychology* ; (2) Stout's *Analytic Psychology* ; (3) Külpe's *Outlines of Psychology*.

(c) Political Philosophy for 1903. Aristotle, *Politics*—Green, *Principles of Political Obligation*—Sidgwick, *Elements of Politics*.

<sup>1</sup> The special examination in Greek (see p. 116) will be held at the same time as the first paper of the M.A. Pass Examination in Greek, in October 1902 and April 1903 and will consist of (1) Passages for translation from Aristotle, *Nic. Ethics*, bk. i. ; Plato, *Republic*, bk. vi. or vii. ; (2) Easy passages for unseen translation from Xenophon, Plato, or Aristotle. Candidates must enter their names, and state which book of Plato's *Republic* they offer, one month before the date of the examination.



### III.—MATHEMATICS AND NATURAL PHILOSOPHY.

Pure Geometry, Algebra, Theory of Equations, including Determinants, Trigonometry (Plane and Spherical), Analytical Geometry, Differential and Integral Calculus, Calculus of Finite Differences. (The Candidate may, if he please, profess the Elements of Quaternion Analysis.)

Analytical Dynamics and Thermodynamics, with at least two other branches of Mathematical Physics (such as Advanced Dynamics, Electrostatics, Electro-kinetics, Wave Theory (Light and Sound), Physical Applications of Vector Analysis, &c.), or with at least one such branch and one branch of Experimental Physics (such as Heat, Light, Electricity, &c.), in which the Candidate shall have submitted to the Examiners a thesis, approved by them, embodying the results of an original investigation.

### IV.—ENGLISH (LANGUAGE, LITERATURE, AND BRITISH HISTORY).

1. Candidates for Honours in English must attend at least four complete courses of Lectures within their Honours group, viz.: (a) Not less than two Courses in English Literature, of which one at least must be an Honours Course; and (b) not less than two Courses—one of which at least must be an Honours Course—in the Subsidiary subjects, English Language and British History; or in either of them.

2. Every such candidate must be examined in all the three subjects mentioned in the Regulations, Section XI. (1) *f*.

#### *Subjects for 1903.*

##### 1. *Literature.*

1. Rhetoric and the Principles of Literature. The Professor's *History of Criticism*, vol. i., is recommended. Knowledge of the following required:—Aristotle's *Rhetoric* and *Poetics*; Quintilian's *Institutes*, especially books ix. and x.; Longinus, *On the Sublime*; Dante, *De Vulgari Eloquentia*; Jonson, *Discoveries*; Dryden, *Essay of Dramatic Poesy*; Addison, *Essays on Paradise Lost* and *The Pleasures of the Imagination*; Pope, *Essay on Criticism*; Johnson, *Lives of Cowley, Milton, Dryden, Pope, and Gray*; Wordsworth's *Prose Prefaces*; Coleridge, *Biographia Literaria*, cap. xiv. to end; M. Arnold, *Essays in Criticism* (Preface and two first Essays, with Prefatory Essay to Ward's *Poets*); Masson's *Essay on Milton's English and Versification* (in Edition of Milton); Guest's *English Rhythms*.

2. History of English Literature. (1) *General*.—*Books recommended*:—Ten Brink's *Early English Literature* (transl. by Kennedy); Stopford Brooke's *Early English Literature*; Ward's *English Dramatic Literature*; Saintsbury's *Short History of English Literature, Elizabethan Literature* and *Nineteenth Century Literature*; Gosse's *Eighteenth Century Literature*; Ward's *English Poets*; Craik's *English Prose*; Irving's *History of Scottish Poetry*. (2) *Special*.—Literature of

the Eighteenth Century. Candidates are expected to show thorough knowledge of the following:—Addison; Arnold's *Selections*; Pope, *Essay on Man*, *Satires* and *Epistles*; Swift, *Tale of a Tub*, *Battle of the Books*, *Gulliver's Travels*; Thomson, *Seasons* and *Castle of Indolence*; Johnson, Gray, Collins, Goldsmith, Fergusson, Burns, *Poems*; A. Ramsay, *The Gentle Shepherd*; Cowper, *The Task*; Crabbe, *The Village*; Burke, *Reflections on the Revolution in France*.

3. The subjects of any other Honours Course in English Literature the Candidate may have attended.

Candidates will be required to write a Critical Essay on some subject arising out of Nos. 1, 2, or 3.

## 2. *Language.*

1. The History of Old and Middle English. For Books recommended for reference see Course on the History of Old and Middle English.

2. *Special Readings.*—*Beowulf* (ll. 1251-1887); The Verse passages in the *Chronicle*; Ælfric, *Homilies* (Extracts in Sweet's *A.-S. Reader*); Havelok, *The Brus* (bks. i.-iii. inclus.); Chaucer, *The Book of the Duchesse*; Henryson, *Fables*. Also Sweet, *A.-S. Reader*, part ii. (Archaic and Dialectal), and Morris and Skeat, *Specimens*, i. and ii., in illustration of O.E. and M.E. Dialects.

3. Unseen passages for translation into Modern English.

## 3. *British History.*

Either (a) British History from B.C. 55 to A.D. 1837 in outline, and (b) British History, A.D. 1603-1714 in detail; or, in the option of the Candidate (a) State and Church in England 1360-1563, and (b) Original sources relating to that period. The Examination will have special reference to Dr Lechler's Wycliffe; Wycliffe's *de officio regis*; the Vision of *Piers Plowman*; Prologue to Chaucer's *Canterbury Tales*; Fortescue's *Governance of England*; and Seebohm's *Oxford Reformers*. For other books recommended, see Outline of Courses.

## *Subjects for 1904.*

### 1. *Literature.*

1. Rhetoric and the Principles of Literature. The Professor's *History of Criticism*, vol. i., is recommended. Knowledge of the following required:—Aristotle's *Rhetoric* and *Poetics*; Quintilian's *Institutes*, especially books ix. and x.; Longinus, *On the Sublime*; Dante, *De Vulgari Eloquentia*; Jonson, *Discoveries*; Dryden, *Essay of Dramatic Poesy*; Addison, *Essays on Paradise Lost* and *The Pleasures of the Imagination*; Pope, *Essays on Criticism*; Johnson's *Lives of Cowley, Milton, Dryden, Pope, and Gray*; Wordsworth's *Prose Prefaces*;

Coleridge, *Biographia Literaria*, cap. xiv. to end ; M. Arnold, *Essays in Criticism* (Preface and two first Essays, with Prefatory Essay to Ward's *Poets*) ; Masson's *Essay on Milton's English and Versification* (in Edition of Milton) ; Guest's *English Rhythms*.

2. History of English Literature. (1) *General*.—Books recommended :—Ten Brink's *Early English Literature* (transl. by Kennedy) ; Stopford Brooke's *Early English Literature* ; Ward's *English Dramatic Literature* ; Saintsbury's *Short History of English Literature, Elizabethan Literature and Nineteenth Century Literature* ; Gosse's *Eighteenth Century Literature* ; Ward's *English Poets* ; Craik's *English Prose* ; Irving's *History of Scottish Poetry*. (2) *Special*.—Literature of the Nineteenth Century. Candidates are expected to show thorough knowledge of the following :—Wordsworth, Byron, Shelley, Landor, Southey, in *Golden Treasury Selections* ; Keats' *Poems* ; Macaulay's *Essays on Restoration Drama* ; Clive, Ranke, Boswell's *Johnson* ; Carlyle, Sartor Resartus and John Stirling ; Tennyson, *Poems* to 1859 ; Browning, *Selections*, 2 vols. ; Matthew Arnold, *Selected Poems and Essays in Criticism*.

3. The subjects of any other Honours Course in English Literature the Candidate may have attended.

Candidates will be required to write a Critical Essay on some subject arising out of Nos. 1, 2, or 3.

## 2. Language.

1. The History of Old and Middle English. For Books recommended for reference, see Course on the History of Old and Middle English.

2. *Special Readings*.—*Beowulf*, ll. 1-1250 ; *Judith* ; Prose Passages in Sweet's *A.-S. Reader* (7th edit.) ; *King-Horn* ; Minot's *Poems* ; Chaucer, *The Tales of the Man of Lawe and the Pardoner* ; *The Complaynt of Scotlande*. Also Sweet's *A.-S. Reader*, parts i. and ii. (*Archaic and Dialectal*), and Morris and Morris and Skeat's *Specimens*, parts i. and ii., in illustration of O.E. and M.E. Dialects.

3. Unseen passages in O.E. and M.E. for translation into modern English.

## 3. British History.

Either (a) British History from B.C. 55 to A.D. 1837 in outline, and (b) British History, A.D. 1603-1714 in detail ; or, in the option of the Candidate (a) State and Church in England 1360-1563, and (b) Original sources relating to that period. The Examination will have special reference to Dr Lechler's *Wycliffe* ; *Wycliffe's de officio regis* ; the Vision of *Piers Plowman* ; Prologue to Chaucer's *Canterbury Tales* ; Fortescue's *Governance of England* ; and Seebohm's *Oxford Reformers*. For other books recommended, see Outline of Courses.

V.—MODERN LANGUAGES AND LITERATURE.

*French, 1903.*

Chanson de Roland—Darmesteter, 16<sup>e</sup> *Siècle*—Montaigne, *Essais*—Pascal, *Pensées*—La Bruyère, *Caractères*—Saint-Simon, *Mémoires (Extraits)*—Rousseau, *Emile, Petits Chefs-d'œuvre*—Montesquieu, *Esprit des Lois*—Victor Hugo, *Chefs-d'œuvre dramatiques*—Lamartine, *Lectures pour Tous*—Faguet, *Dix-huitième Siècle*—Taine, *Littérature anglaise*—de Staël, *l'Allemagne*—*Annales politiques et littéraires*, 1902-3.

*French Composition* and translation of unseen passages.

Oral examination: reading aloud, and French conversation. Subject: Victor Hugo, *Légende des Siècles*.

*French History*.—A general knowledge of French History, and a more minute knowledge of the period from 1789 to 1870. Books recommended:—Michelet, *Révolution française*—Taine, *Origines de la France contemporaine*—Thiers, *Consulat et Empire*.

*French Literature*.—A general knowledge of the history of French Literature, and a special knowledge of the period from 1802 to 1889.

*Romance Philology*.—The general principles of Romance Philology. Books recommended:—Brachet, *Grammaire historique*; Bartsch, *La Littérature française jusqu'au 14<sup>me</sup> Siècle*; Brunot, *Grammaire historique*, 3rd ed.; Darmesteter, *Grammaire historique*.

*French, 1904.*

Chanson de Roland—Montaigne, *Essais*—Rousseau, *Confessions, Contrat Social*—Saint-Simon, *Mémoires*, ed. Hachette t. 1 et 2—V. Hugo, *Les Misérables, Morceaux choisis* (Poésie)—The Lecturer's *Essais de Philosophie et de Littérature*—Legouvé's, *La Lecture en action*.

*French Composition* and translation of unseen passages. Montesquieu, *Esprit des Lois*.

Oral examination: reading aloud, and French conversation. Subject: Victor Hugo, *Légende des Siècles*.

*French History*.—A general knowledge of French History, and a more minute knowledge of the period from 1789 to 1870. Books recommended:—Michelet, *Révolution française*—Taine, *Origines de la France contemporaine*—Thiers, *Consulat et Empire*.

*French Literature*.—A general knowledge of the history of French Literature, and a special knowledge of the period from 1802 to 1889.

*Romance Philology*.—The general principles of Romance Philology. Books recommended:—Brachet, *Grammaire historique*; Bartsch, *La Littérature française jusqu'au 14<sup>me</sup> Siècle*; Brunot, *Grammaire historique*, 3rd ed.; Darmesteter, *Grammaire historique*.

*German for 1903.*

\* *Althochdeutsche Litteratur*, ed. Schauffler (Göschel)—*Deutsche Mythologie*, Kauffmann (Göschel)—\* *Quellenbüchlein zur Kultur-*

*geschichte des Deutschen Mittelalters*, Schauffler—\* *Meier Helmbrecht*, Wernher der Gärtner—\* *Luther, An den christlichen Adel deutscher Nation*, Niemeyer (Neudrucke)—*Simplicissimus* (Grimmelshausen) ed. G. Klec (Velhagen)—Voss, *Homers Ilias*, ed. Primožic (Graeser, —\* *Schiller, Wallensteins Tod*, ed. Breul (Pitt Press)—Goethe, *Werthers Leiden*—\* *Correspondence between Schiller and Goethe*, ed. J. G. Robertson (Ginn & Co.)—\* *Lenau, Gedichte*—Geibel, *Letzte Gedichte*—G. Freytag, *Aus dem Jahrhundert der Reformation* (Bilder aus der deutschen Vergangenheit)—Scheffel, *Ekkehard*—Storm, *Aquis submersus*—R. Hildebrand, *Tagebuchblätter eines Sonntagsphilosophen*—\* *Reuter, Ut mine Stromtid*, Bd. i. Texts marked \* will be read or interpreted in class.

Translation from authors not prescribed. German Prose composition. German Essay.

Recommended:—Victor, *Die Aussprache des Schriftdeutschen*.

*German History*.—A general knowledge of the subject, and a more minute knowledge of the period from 1700 to 1900.

Recommended:—D. Müller, *Leitfaden der deutschen Geschichte*—Kaemmel, *der Werdegang des deutschen Volkes*—Günther, *Deutsche Kulturgeschichte*

*German Literature*.—A general knowledge of the subject, and a more special knowledge of the authors prescribed, and of the period from 1740 to 1900.

Recommended:—M. Koch, *Deutsche Litteraturgeschichte* (Göschen)—W. Scherer, *Deutsche Litteraturgeschichte*.

*German Philology*.—Elements of Historical Grammar as contained in Brandt's *German Grammar* (Boston, Allyn & Bacon).

Recommended:—O. Weise, *Unsere Muttersprache*—Behagel, *Die deutsche Sprache*.

*Oral examination* in reading aloud and in German conversation. Subjects: *Wallenstein*, *Werther*, *Correspondence*.

#### German for 1904.

*Althochdeutsche Litteratur*, ed. Schauffler (Goeschen)—\* *Quellenbüchlein zur Kulturgeschichte des deutschen Mittelalters*, Schauffler—\* *Walther von der Vogelweide*, ed. Bartsch—*Schöner Dialogus von Martin Luthero*, ed. Enders (Neudrucke, Niemeyer)—\* *Brant, Glückhaftes Schiff*, ed. Baeseke (Neudrucke, Niemeyer)—Reineke Vos. Extracts—\* *Fliegende Blätter von deutscher Art und Kunst*, ed. Lambel—Goethe, *Faust*, I. Teil, ed. C. Thomas—Forster, *Kleine Schriften*—\* *Schiller, Naïve und sentimentalische Dichtung* (Gräser)—Schiller, *Brant von Messina*—Moritz, *Von der bildenden Nachahmung des Schönen* (Neudrucke, Niemeyer)—Geibel und Leuthold, *Französische Lyrik*—Ricarda Huch, *Evae*—\* G. Hauptmann, *de Waber*—Bern, *Neuere deutsche Lyrik*—Widmann, *Rector Müslins italienische Reise* (Schmidt)—\* *Heimatk lünge aus deutschen Gauen*, Vol. I.—W. Raabe,

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*Der Hungerpastor.* Texts marked \* will be read or interpreted in class.

Translation, composition, essay, history, literature, philology, as for 1903. Oral examination on "Faust," Widmann and Bern.

### VI.—HISTORY.

#### *Subjects for 1903.*

Candidates for Honours in History must attend two Classes (one at least of which must be an Honours Class) in each of their Honours Subjects.

The Honours Subjects are (1) Modern History, (2) Constitutional History, and (3) History of Art. See Outlines of Courses.

I. Under the head of *Modern History* four papers will be set:—

(1) "General Survey of British History from B.C. 55 to A.D. 1837, with special attention to the period A.D. 1603 to 1689." Candidates will be required to show a knowledge of Gardiner's *Documents of the Puritan Revolution*.

(2) *Either* (a) "The History of France from 1715-1815, with special attention to period of the French Revolution from 1789-95." Prescribed books:—Arthur Young, *Travels in France*; Bailly, *Mémoires*, tome i.; Bertrand-Moleville, *Mémoires Particuliers*; Schmidt, *Tableaux de la Révolution française*, tome i.; Morse-Stephens, *Orators of the French Revolution*; or, (b) "The History of Europe from 1715 to 1815, with a special study of *The Diaries and Correspondence of the first Earl of Malmesbury*," vols. i.-iii. For recommended books, see Outline of Courses.

II. In *Constitutional History*, four papers:—

(1) and (2) Constitutional History of England (a) from 1066 to 1450; (b) from 1688 to 1782.

(3) Origins and Principles of the chief European Constitutions.

(4) State and Church in England, from Wycliffe to Luther.

The Candidate must show some familiarity with the original sources (in Latin, French, Old English, &c.; cf. Syllabus of Course).

III. In *History of Art* four papers:—

(1) The general subject (two papers) embracing:—The Class Lectures; the Professor's Manual, *The Fine Arts*; Conway's *Dawn of Art in the Ancient World*; Maspero's *Dawn of Civilisation* and *The Struggle of the Nations*; Woltmann's *History of Painting*, Vol. I.; Vasari's *Lives* of Giotto, Angelico, Donatello, Brunelleschi, Michelangelo (in Blashfield and Hopkins' edition of



the *Lives* or in Bohn's translation, with the addition of Richter's Notes in Vol. VI. of Bohn's edition).

(2) Classical Archaeology (two papers). The examination will be in the same books, &c., as those prescribed in this subject for Honours in Classics. (See p. 144.)

(3) British History as illustrated in monuments, &c. (two papers). *Text-books*—Bede, *Opera Historica*, ed. Plummer (selected passages); J. Romilly Allen, *Monumental History of the Early British Church*.

*Regulations and Subjects for 1904.*

Candidates must attend Four Courses in History, two at least of which must be Honours Courses.

Of the following subjects candidates must take Nos. i., ii., and iii., and also two branches under No. iv., one of which must be either (a) or (b).

i. Two papers on General British History<sup>1</sup> from B.C. 55 to A.D. 1837.

ii. Two papers on Constitutional History and Constitutional Law of England (450-1832).

iii. One paper on Political Science: (1) Nature, structure, and working of the State; (2) History of political theories, especially since the Reformation. A knowledge of the following works is required:—Aristotle, *Politics* (a general knowledge); Hobbes, *Leviathan*, Part II. (*Of Commonwealth*); Locke, *Civil Government*; Mill, *Representative Government*; Janet, *Histoire de la Science Politique*.

iv. Two papers on each of the following subjects:—

(a) European History from 1715 to 1815, with special study of *Recueil des Instructions données aux Ambassadeurs de France, Autriche* (ed. by A. Sorel), from p. 151, *Diaries and Correspondence of the First Earl of Malmesbury*, Vols. I. to III., Arthur Young, *Travels in France* (ed. Betham-Edwards).

(b) The Constitutions of the United States of America, of France, Germany, and Switzerland (see authorities in Synopsis of Lectures); or, in the option of the Candidates:

State and Church in England from Wycliffe to Luther, including reference to the history of the Papacy, and to that of Bohemia (see authorities in Synopsis of Lectures).

(c) *Either* (1) Scottish History from 80 A.D. till 1286, with the histories of other Countries so far as they directly bear on that of Scotland. Books prescribed:—Skene, *Celtic Scotland*, Vol. I.; Rhys, *Celtic Britain*; Tout, *The Empire and the Papacy*; Adamnan, *Life of St Columba* (ed. Fowler); Bede, *Ecclesiastical History* (ed. Plummer);

<sup>1</sup> These papers will include several questions relating to History as illustrated in Monuments.



- (*Chapters relating to History of North Britain*); Turgot, *Life of St Margaret* (Forbes-Leith's Translation); or,
- (2) Scottish History from 1286 to 1488, with the histories of other Countries so far as they directly bear on that of Scotland. Books prescribed:—Fraser Tytler, *History of Scotland*; Hill Burton, *History of Scotland*; John of Fordoun's *Chronicle of the Scottish Nation—Annals* (in series of the Historians of Scotland); Barbour, *Bruce* (Scottish Text Society); Burnett's *Introduction to the Exchequer Rolls of Scotland*; Lodge, *The Close of the Middle Ages*.
- (a) (1) Outlines of Greek History<sup>1</sup> down to the death of Alexander; (2) Special Subject—The Development of the Athenian Constitution and its Working, as illustrated by Contemporary Records; Aristotle's *Respublica Atheniensium*.
- (e) (1) Outlines of Roman History<sup>1</sup> down to the death of Nero; (2) Special Period: 70-44 B.C., with Cicero's *Letters*; Watson's *Selections*, Parts I. and II.; Caesar, *Civil War*.
- (f) History of Art: The General Subject, embracing—The Class Lectures; The Professor's Manual, *The Fine Arts*; Conway's *Dawn of Art in the Ancient World*; Maspero's *Dawn of Civilization and Struggle of the Nations*; Woltmann's *History of Painting*, Vol. I.; Vasari's *Lives of Giotto, Angelico, Donatello, Brunelleschi, Michelangelo* (in Blashfield and Hopkins' edition of the *Lives*).

## VII.—ECONOMIC SCIENCE.

- [*i.e.* POLITICAL ECONOMY with either (a) MORAL PHILOSOPHY or (b) HISTORY as supplementary Honours Subjects.]

### *Subjects for 1903.*

I. POLITICAL ECONOMY.—An advanced knowledge of Economic Theory. Special knowledge of the Economic Functions of Government and Public Finance. General Economic History of England, and special study of set subjects.

*Books recommended:*—General Theory.—Marshall's *Principles of Economics*, Vol. I.; Keynes' *Scope and Method of Political Economy*; Nicholson's *Principles of Political Economy*. For Reference on Abstract Methods—Pantaleoni's *Pure Economics*.

Government and Finance.—Adam Smith's *Wealth of Nations*, Book

<sup>1</sup> These papers will include several questions relating to History as illustrated in Monuments.

V. ; J. S. Mill's *Political Economy*, Book V. ; Sidgwick's *Political Economy*, Book III. ; Bastable's *Public Finance*. For Reference—Sidgwick's *Elements of Politics*, chaps. i.-xii.

Economic History.—Cunningham's *Growth of English Industry and Commerce* ; Seebohm's *English Village Community*, chaps. i.-v. For Reference—Roger's *Six Centuries of English Work and Wages* ; Ashley's *Economic History* ; Gomme's *Village Community* ; Vinogradoff's *Villeinage in England*.

Three Papers to be set.

2. MORAL PHILOSOPHY.—The papers in Moral Philosophy will be the same as those set for Honours in Philosophy.

3. HISTORY.—The papers in History, either General or Constitutional (in the Candidate's option) will be the same as for Honours in History.

#### Subjects for 1904.

1. POLITICAL ECONOMY.—An advanced knowledge of Economic Theory. Special knowledge of Economic Progress, the Economic Functions of Government and Public Finance. The History of Political Economy, and special study of certain authors.

*Books recommended* :—Marshall's *Principles of Economics*, Vol. I. ; Keynes' *Scope and Method* ; Nicholson's *Principles* ; Sidgwick's *Political Economy*, Book III. ; Bastable's *Public Finance*.

History of Political Economy.—Comparative Study of J. S. Mill's *Principles*, Adam Smith's *Wealth of Nations*, and List, *National System of Political Economy* (translated).

2. MORAL PHILOSOPHY.—The papers in Moral Philosophy will be the same as the Moral Philosophy papers set for Honours in Philosophy, together with the additional paper in Political Philosophy.

3. HISTORY.—The papers in History will be *either* those specified under i., iii., and iv.(a), *or* those under ii., iii., and iv.(b) in the Regulations for Honours in History for 1904. See page 153.

#### REGULATIONS FOR SCHOOLMASTER'S DIPLOMA.

1. Candidates for the Schoolmaster's Diploma must be graduates in Arts of a Scottish, English, or Irish University, or of some other University approved of by the Senatus and the University Court.

2. Each Candidate must have matriculated in the University for the year in which he presents himself for the Diploma.

3. Each Candidate must have attended the Class of the Theory, Art, and History of Education in the University.

4. Each Candidate must pass an Examination in the Theory, Art, and History of Education, to be conducted by the Professor of that subject, and an Examiner appointed by the University Court.

5. The subjects of Examination are announced annually.
6. Each Candidate must give evidence either—
  - (a) That the Candidate has attended a Course of Practical Instruction as a King's Scholar in a Training College for Teachers ; *or*,
  - (b) Has gone through a complete course of Practical training in a Training College for Teachers—the Course to extend over not less than five months (eight hours weekly), and to include Demonstration and Criticism Lessons ; *or*,
  - (c) Has completed a Practical Course in St George's Training College, Edinburgh, and passed the practical examination of the University of Cambridge Syndicate.

N.B.—*Those desirous of obtaining the Secondary School Diploma will further be required to spend a month in a Secondary School.*<sup>1</sup>

7. Each Candidate must further satisfy the University of his practical aptitude as a Teacher by teaching a class in some special Subject or Subjects in which he has received instruction in the University, or in any Institution recognised by the University as qualifying for Degrees.

8. Each successful Candidate will receive a Diploma signed by the Vice-Chancellor of the University, or, in his absence, by the Principal or the Senior Professor. This Diploma is of two grades: (a) *Secondary School Diploma*, for Masters of Arts with Honours in any Department, testifying to their fitness for Secondary Schoolmasterships, and will state the Special Subjects in which the holder of the Diploma is qualified ; (b) *General Diploma*, for those who have taken the ordinary Degree of M.A. This is recognised by the Scottish and English Education Departments as qualifying (in the case of Graduates of the University of Edinburgh and all other graduates recognised by the Education Department) for employment in Public Schools.

9. The Fee for the Diploma is £2, 2s.

The Examinations begin on Wed., 15th Oct. 1902, at 9 A.M., and on Frid., 27th March 1903, at 2.30 P.M., and Candidates are required to enter their names and pay the Fees at the *Matriculation Office* on or before 2nd October and 3rd March.

The subjects of Examination are the same as for Graduation in Education (which see, page 139), but the Standard of Pass is much higher, *with the addition* of Milton's "Tractate"; Quintilian's "Institutions," Books I. and II. ; and "The History of Education, Hellenic and Roman," as in the "Historical Survey of Pre-Christian Educa-

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<sup>1</sup> The Heriot Governors, the Merchant Company, and the School Board of Edinburgh, have thrown open their Secondary Schools to students preparing for the Diploma.

tion," by the Professor; also the General Outlines of History, as in Quick's "Biographies," from 1750 A.D.

*A short Thesis will be prescribed to be written in the Examination Room on an Educational subject.*

Books recommended for reading in addition to those named above and on page 139:—Matthew Arnold's *Report on High Schools in Germany*; Thring on *Teaching*; Sully's *Handbook of Psychology for Teachers*; Herbert Spencer's *Education*; Stuart Mill's *Rectorial Address, University of St Andrews*. *The Training of Teachers and Methods of Instruction* by Professor Laurie.

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## EXAMINATION FOR CANDIDATES FOR THE ARMY.

1. Graduates in Arts or in Science of this University, or anyone who has passed the Examinations for either of these degrees are eligible for Commissions in the Army. The limit of age is 17 to 23.

2. Students of this University who have passed "the Examination of Candidates for the Army," are also eligible for Commissions. They are required to attend one class in each of the following three Departments—viz. (a) Latin or Greek; (b) Logic, Moral Philosophy, or Rhetoric and English Literature; (c) Mathematics or Natural Philosophy,—and to pass the Examination on the M.A. standard, in the three subjects in which they have attended classes. The limit of age in this case is 17 to 22.

Candidates for Certificates must enter their names in and pay the Fees at the *Matriculation Office* at the same time as the Candidates for the M.A. Examinations. The Fee for the Examination is two guineas.

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## THE CARNEGIE TRUST.

*Instructions to Applicants for payment of Class Fees in the University, and in the Extra-mural Classes, attendance on which is recognised for graduation in the University.*

Three qualifications are demanded. The applicant (1) must be over sixteen years of age; (2) must be of Scottish birth or extraction, or must have given two years' attendance after the age of fourteen at a school or institution under inspection of the Scotch Education Department; and (3) must be qualified by preliminary examination under the ordinances of the Scottish Universities Commission and the regulations of the Joint Board of Examiners, to attend the classes for which payment of fees is to be claimed.

Schedules of Application to be admitted to the benefit of the Trust can only be had by written application to the Secretary to the Trust, 2 St Andrew Square, Edinburgh.

# Competitive Examinations for Bursaries in Arts.

## HONOURS LIST.

### ORDERS OF MERIT.

*October 1901.*

### I.—STUDENTS ENTERING FIRST SESSION.

#### A. GENERAL BURSARY LIST.

(*Subjects of Examination*—English (100), Latin (100), Greek (100), Mathematics (100), French (50), German (50), Italian (50), and Dynamics (50) (with additional papers in English, Latin, Greek, Mathematics, French, and German). Candidates select not more than five subjects. Those who select Latin, Greek, or Mathematics, take the papers on these subjects on the Higher Standard).

- |   |  |
|---|--|
| 1. { Walter Carter, George Watson's College.            | 16. Thomas A. B. Smith, Daniel Stewart's College.    |
| 2. { David C. Wilkie, George Watson's College.          | 17. James F. Nicoll, George Watson's College.        |
| 3. John W. Nelson, George Watson's College.             | 18. { John Pinkerton, Daniel Stewart's College.      |
| 4. Duncan R. Matheson, George Watson's College.         | 19. { John C. Turner, Ayr Academy.                   |
| 5. James M. Finlayson, Royal High School.               | 20. Philip W. Lilley, Arbroath High School.          |
| 6. Thomas White, Daniel Stewart's College.              | 21. Henry C. Logie, Stromness Public School.         |
| 7. James C. Stewart, Royal High School.                 | 22. William Ross, Forres (B) Public School.          |
| 8. { Alexander K. Jameson, George Watson's College.     | 23. { John Stevenson, Ayr Academy.                   |
| 9. { Richard C. Alexander, George Watson's College.     | 24. { John L. Bell, Burntisland Burgh Public School. |
| 10. { E. MacLagan Wedderburn, George Watson's College.  | 25. { Hector D. MacPhail, George Watson's College.   |
| 11. Peter Milne, Royal High School.                     | 26. Donald M. Watson, Morrison's Academy, Crieff.    |
| 12. Margaret M. Robertson, Ayr Academy.                 | 27. Ian T. A. MacDonald, Sherborne School, Dorset.   |
| 13. Margaret S. J. Maybin, Ayr Academy.                 | 28. William J. C. Laurie, Dundee High School.        |
| 14. William Ferrier, Brechin High School.               | 29. William H. Kirkland, Ayr Academy.                |
| 15. Alexander Gibson, F. C. Normal School, Moray House. | 30. Henry D. G. Law, Westminster.                    |
| 16. David Somerville, George Watson's College.          | 31. John M. Thorburn, Stranraer High School.         |
| 17. { John D. M'Ewen, George Watson's College.          | 32. James A. A. Baker, Royal High School.            |
| 18. { John L. Watson, Royal High School.                | 33. David Cormack, George Watson's College.          |
|   | 34. Hector M. Bowie, George Watson's College.        |

B. JOHN WELSH CLASSICAL BURSARY.

(Subjects of Examination—English (100), Latin (100), and Greek (100).)

- |   |  |
|---|--|
| 1. Alexander K. Jameson, George Watson's College. | 9. John L. Watson, Royal High School.                |
| 2. James C. Stewart, Royal High School.           | 10. Peter Milne, Royal High School.                  |
| 3. James M. Finlayson, Royal High School.         | 11. { Philip W. Lilley, Arbroath High School.        |
| 4. { Walter Carter, George Watson's College.      | 11. { David Somerville, George Watson's College.     |
| 4. { Thomas White, Daniel Stewart's College.      | 12. Ian T. A. MacDonald, Sherborne School, Dorset.   |
| 5. David C. Wilkie, George Watson's College.      | 13. { Richard C. Alexander, George Watson's College. |
| 6. { Henry D. G. Law, Westminster.                | 13. { John D. M'Ewen, George Watson's College.       |
| 6. { John W. Nelson, George Watson's College.     | 13. { John Pinkerton, Daniel Stewart's College.      |
| 7. { Margaret S. J. Maybin, Ayr Academy.          | 14. E. MacLagan Wedderburn, George Watson's College. |
| 7. { Margaret M. Robertson, Ayr Academy.          | 15. John C. Turner, Ayr Academy.                     |
| 8. Duncan R. Matheson, George Watson's College.   | 16. Andrew M'Nair, Kilmarnock Academy.               |
|   | 17. William Ross, Forres (B) Public School.          |

C. JOHN WELSH MATHEMATICAL BURSARY.

(Subjects of Examination—Mathematics, especially pure Geometry.)

1. David C. Wilkie, George Watson's College.
2. John W. Nelson, George Watson's College.
3. Walter Carter, George Watson's College.
4. Duncan R. Matheson, George Watson's College.
5. Richard C. Alexander, George Watson's College.
6. Thomas White, Daniel Stewart's College.
7. Peter Milne, Royal High School.
8. E. MacLagan Wedderburn, George Watson's College.
9. Alexander Gibson, F. C. Normal School, Moray House.
10. Thomas A. B. Smith, Daniel Stewart's College.

D. GEORGE HERIOT BURSARIES FOR MEN (CLASS A).

(Subjects as for General Bursary Competition.)

- |   |  |
|---|--|
| 1. James M. Finlayson, Royal High Sc.             | 11. Henry C. Logie, Stromness Public School.         |
| 2. Thomas White, Daniel Stewart's Col.            | 12. John Stevenson, Ayr Academy.                     |
| 3. James C. Stewart, Royal High Sch.              | 13. { John L. Bell, Burntisland Burgh Public School. |
| 4. Alexander K. Jameson, George Watson's College. | 13. { Hector D. MacPhail, George Watson's College.   |
| 5. Peter Milne, Royal High School.                | 14. Donald M. Watson, Morrison's Academy, Crieff.    |
| 6. William Ferrier, Brechin High Sch.             | 15. Ian T. A. MacDonald, Sherborne School, Dorset.   |
| 7. { John D. M'Ewen, George Watson's College.     | 16. William H. Kirkland, Ayr Academy.                |
| 7. { John L. Watson, Royal High Sch.              | 17. John M. Thorburn, Stranraer High School.         |
| 8. Thomas A. B. Smith, Daniel Stewart's College.  | 18. James A. A. Baker, Royal High School.            |
| 9. James F. Nicoll, George Watson's College.      |  |
| 10. { John Pinkerton, Daniel Stewart's College.   |  |
| 10. { John C. Turner, Ayr Academy.                |  |



*E. GEORGE HERIOT BURSARIES FOR MEN (CLASS B).*

(*Subjects*—As for General Bursary Competition, but with the following values—English (100), Latin (50), Greek (50), Mathematics (100), French (100), German (100), Italian (100), Dynamics (50).)

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Jas. M. Finlayson, Royal High Sch.</li> <li>2. Thomas White, Daniel Stewart's Col.</li> <li>3. John Stevenson, Ayr Academy.</li> <li>4. James C. Stewart, Royal High Sch.</li> <li>5. Peter Milne, Royal High School.</li> <li>6. William Ferrier, Brechin High Sch.</li> <li>7. John L. Bell, Burntisland Burgh Public School.</li> <li>8. Thomas A. B. Smith, Daniel Stewart's College.</li> <li>9. John C. Turner, Ayr Academy.</li> <li>10. { Henry C. Logie, Stromness Public School.</li> <li>      John Pinkerton, Daniel Stewart's College.</li> </ol> | <ol style="list-style-type: none"> <li>11. Alexander K. Jameson, George Watson's College.</li> <li>12. John D. M'Ewen, George Watson's College.</li> <li>13. James F. Nicoll, George Watson's College.</li> <li>14. { John M. Thorburn, Stranraer High School.</li> <li>      Donald M. Watson, Morrison's Academy, Crieff.</li> <li>15. William H. Kirkland, Ayr Academy.</li> <li>16. John L. Watson, Royal High School.</li> <li>17. Ian T. A. MacDonald, Sherborne School, Dorset.</li> </ol> |
|--|---|

*F. GEORGE HERIOT BURSARIES FOR WOMEN (CLASS A).*

(*Subjects as for General Bursary Competition.*)

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Margaret M. Robertson, Ayr Academy.</li> <li>2. Margaret S. J. Maybin, Ayr Academy.</li> <li>3. Jessie F. Cameron, Perth Academy.</li> <li>4. Jessie H. Purdie, Edinburgh Ladies' College.</li> <li>5. Julia M. C. Waltenberg, Edinburgh Ladies' College.</li> <li>6. Barbara R. A. Brown, George Watson's Ladies' College.</li> <li>7. Jeannie C. Bowie, Edinburgh Ladies' College.</li> </ol> | <ol style="list-style-type: none"> <li>8. Helen A. Hunter, George Watson's Ladies' College.</li> <li>9. Jane B. T. Macdonald, St Margaret's College, Morningside.</li> <li>10. Arabella S. Furnell, Ecole Supérieure, France.</li> <li>11. Margaret Thom, Edinburgh Ladies' College.</li> <li>12. Jenny S. Wingate, George Watson's Ladies' College.</li> <li>13. Margaret K. Ross, Perth Academy.</li> <li>14. Alice M. Jones, Dundee High Sch.</li> <li>15. Jane M. Beattie, Hamilton Academy.</li> </ol> |
|---|---|

*G. GEORGE HERIOT BURSARIES FOR WOMEN (CLASS B).*

(*Subjects*—As for General Bursary Competition, but with the following values—English (100), Latin (50), Greek (50), Mathematics (100), French (100), German (100), Italian (100), Dynamics (50).)

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Jessie H. Purdie, Edinburgh Ladies' College.</li> <li>2. Julia M. C. Waltenberg, Edinburgh Ladies' College.</li> <li>3. Barbara R. A. Brown, George Watson's Ladies' College.</li> <li>4. Jeannie C. Bowie, Edinburgh Ladies' College.</li> <li>5. Arabella S. Furnell, Ecole Supérieure, Bléneau, Yonne, France.</li> <li>6. Helen A. Hunter, George Watson's Ladies' College.</li> <li>7. { Jane B. T. Macdonald, St Margaret's College, Morningside.</li> <li>      Margaret Thom, Edinburgh Ladies' College.</li> </ol> | <ol style="list-style-type: none"> <li>8. Jessie F. Cameron, Perth Academy.</li> <li>9. Margaret M. Robertson, Ayr Academy.</li> <li>10. Jenny S. Wingate, George Watson's Ladies' College.</li> <li>11. Alice M. Jones, Dundee High Sch.</li> <li>12. Margaret S. J. Maybin, Ayr Academy.</li> <li>13. Margaret K. Ross, Perth Academy.</li> <li>14. Jane M. Beattie, Hamilton Academy.</li> <li>15. Mary C. MacCallum, George Watson's Ladies' College.</li> <li>16. Margaret Kennedy, Perth Academy.</li> <li>17. Margaret Brander, George Watson's Ladies' College.</li> </ol> |
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H. HERIOT ST GEORGE'S TRAINING COLLEGE BURSARIES  
(GRADUATES).

(*Subjects of Examination*—Three of the following—English (100), Latin (100), Greek (100), Mathematics (100), French (100), German (100). Papers as for General Bursary Competition.)

Mary E. M. Clark, M.A. (Edin.)

I. HERIOT ST GEORGE'S TRAINING COLLEGE BURSARIES  
(NON-GRADUATES).

(*Subjects of Examination*—The Preliminary Examination for Arts or Science.)

Helen R. Henderson, St George's Classes.

J. PREFERENTIAL BURSARIES.

(*Subjects of Examination*—English on the Higher Standard ; Latin, Greek, and Mathematics on the Lower Standard.)

- |                     |  |                           |
|---------------------|--|---------------------------|
| 1. Henry C. Logie.  |  | 6. Alexander Spark.       |
| 2. John M'Cutcheon. |  | 7. David Smith.           |
| 3. George E. Dodd.  |  | 8. { Malcolm G. Nicolson. |
| 4. John Maclean.    |  | { Robert L. Stewart.      |
| 5. John Hughson.    |  |                           |

K. RENTON BURSARY.

(*Subjects of Examination*—English and Mathematics.)

Alexander Gray.		Alexander Gibson.
	David Gibb.	

L. MACKINNON BURSARY.

(*Subjects of Examination*—As for Preferential Bursaries, with Gaelic in addition.)

John Maclean.

M. M'GLASHAN BURSARY FOR WOMEN OFFERED BY  
COMMITTEE OF ST GEORGE'S CLASSES.

(*Subjects of Examination*—The Preliminary Examination for Arts.)

Mary E. Macwilliam.

N. KELLAND PRIZE.

(*Subject of Examination*—Geometry.)

Henry Ireland.

II.—SECOND YEAR BURSARIES.

(*Subjects of Examination*—Latin, Greek, and Mathematics.)

- |                              |  |                          |
|------------------------------|--|--------------------------|
| 1. Frederick M. Philip.      |  | 4. Lennox F. Robertson.  |
| 2. John C. M'Kenzie.         |  | 5. William C. O. Barrie. |
| 3. Alastair D. A. MacGregor. |  | 6. John Kellie.          |

### III.—THIRD YEAR BURSARY.

(*Subjects of Examination*—Classics, Mathematics, and Logic with Psychology.)

John Handyside.

|

James Black.

## GRADUATES IN ARTS.

### HIGHER DEGREES.

1897.

DOCTOR OF LETTERS (D. LITT.).

Alexander Douglas Thomson, M.A. (Edin.).

1897.

DOCTOR OF PHILOSOPHY (D. PHIL.).

John Davidson, M.A. (Edin.).

Robert Latta, M.A. (Edin.).

Hugh Ross Mackintosh, M.A. (Edin.).

Patrick Johnston MacLagan, M.A. (Edin.).

1899.

James Black Baillie, M.A.

1900.

John Smyth, M.A. (N.Z.).

### SPONSIO ACADEMICA FOR M.A.

Nos qui Nomina subsignamus Magisterii titulo jamjam donandi Spondemus nos in omni debitae gratitudinis officio erga Universitatem Academicam Edinburgensem ad extremum vitae halitum perseveraturos.

### DEGREE OF M.A. WITH HONOURS—1889-1902 *inclusively*.

The names of all Graduates in Arts with Honours previously to 1889 will be found in the List of Graduates of the University published in 1889.

*The contractions Class., Phil., Math., Eng., Mod. Lang., and Nat. Sc., indicate the Departments or Groups of Classics, Mental Philosophy, Mathematics and Natural Philosophy, English, Modern Languages, and Natural Science, respectively; and the Italic Numerals, i., ii., and iii. indicate First, Second, and Third Class Honours respectively.*

1889.

*Class. i.*, Patrick Duncan, Harry Angus Alexander Kennedy, Thomas Ross Mills, Jas. Cruickshank Smith, John Tennant.

*Class. ii.*, Robert Alex. Falconer, Alexander Harris Hutt.

*Phil. i.*, Charles Mackinnon Douglas, William George Smith.

*Phil. ii.*, David Walton Vaughan.

*Math. i.*, James Ireland Craig,  
William Andrew Knowles, Jas.  
Fairbairn M'Kean.

*Nat. Sc.*, Alexander Bremner, John  
Brown Clark, David Davidson,  
John Melvin Lowson, Robert  
Stewart M'Dougall, John Mach-  
ray, John Hally Meikle, Harry  
Fisher Menzies, Alexander Gor-  
don Wallace, John Young.

1890.

*Class. i.*, John Maclellan, James  
Watt.

*Class. ii.*, William Brereton Den-  
nison, William Barron Steven-  
son.

*Phil. i.*, Andrew Nisbet Bogle,  
Duncan Mackenzie, Thomas  
Dixon Rutherford, James  
Stewart.

*Phil. ii.*, Henry Reynolds Brown,  
William Elmslie Wilkie Brown  
Dempster, Arthur Herbert Gray,  
Walter Hardie.

*Math. i.*, Charles Tweedie.

*Nat. Sc.*, James Adamson, William  
Lewis Martin, John Myles.  
Andrew Robertson Wilson.

1891.

*Class. ii.*, John Adam Norrie,  
William Gibson Wedderspoon.

*Phil. i.*, Henry Barker, John  
Davidson, Walter Chas. Murray.

*Phil. ii.*, Alexander Grieve, Wm.  
Allan Neilson, Alexander Joseph  
Pearse.

*Math. i.*, John Forbes, Adam  
Mitchell Hunter, William Ed-  
ward Philip, William Leslie  
Thomson, John Turner.

*Nat. Sc.*, Robert Pollok, James  
Rodger Watson.

1892.

*Class. ii.*, Peter Campbell, William  
Gracie, Hugh Ross Mackin-  
tosh.

*Phil. i.*, Hugh Ross Mackintosh.

*Phil. ii.*, Thomas Linton, William  
Joseph Pennell.

*Math. i.*, James Mitchell.

*Math. ii.*, Alexander Campbell  
Mackay.

*Nat. Sc.*, John Smith Flett.

1893.

*Class. i.*, Robert Gordon McKer-  
ron.

*Class. ii.*, Walter Robertson Hen-  
derson, Hugh Lugton Jackson,  
Robert Montgomerie Samson.

*Phil. i.*, Alexander Beith Mac-  
aulay, Hugh Pattison Macmil-  
lan, Lilius Maitland.

*Phil. ii.*, William John Collier,  
Sydney Smith, William Finlay-  
son Trotter.

*Math. i.*, Neil Macmichael.

*Math. ii.*, George Lowe Moffat,  
Frank Spence, Thomas Wilkie  
Wilson, James Wood.

*Nat. Sc.*, Frank Spence, William  
White Taylor, William Watson.

1894.

*Class. i.*, George Liddell, James  
Middleton Moore, Robt. Lindsay  
Ross.

*Phil. i.*, James Black Baillie.

*Math. i.*, Alexander George Bur-  
gess, John Watt Butters, Henry  
Herd, John Alexander Jonhston.

*Math. ii.*, Thomas Cleghorn  
Baillie.

*Nat. Sc.*, John Watt Butters.

1895.

*Class. i.*, Francis Dewar, William  
John Keith, Alexander Buchanan  
Macdonald, William Wallace  
M'Kechnie, Alfred Croom  
Paterson, William David Ross.

*Class. ii.*, George Duncan Low,  
Peter M'Gregor, James Mac-

Kenna, Charles Cunningham  
Watson.

*Phil. i.*, John Macaskill.

*Phil. ii.*, James Bonnar Russell,  
Robert Whyte.

*Math. i.*, John Forbes Cameron,  
Hugh Archibald Jamieson,  
James Alexander Macdonald,  
Thomas William Pickles.

*Math. ii.*, Robert Candlish Melville  
Bell.

*Eng. i.*, David Nichol Smith.

## 1896.

*Class. i.*, Charles Samuel Edgar,  
Alexander Macgregor, Jessie  
Thomson Muir.

*Class. ii.*, Marshall Newton Goold  
Gray, Tom Bell Maxwell Lamb,  
William Robb.

*Math. and Nat. Phil. i.*, William  
Jeffrey, Malcolm Caird M'Alpin,  
Andrew Cameron Smith, Frank  
Guthrie Smith.

*Math. and Nat. Phil. ii.*, John  
Smith Begg, Leopold Octavius  
Critchley.

*Eng. i.*, George Douglas Shep-  
herd.

*Eng. ii.*, Emily Moir Milligan.

*Eng. iii.*, Louisa Reid Boyd.

## 1897.

*Class i.*, Sidney George Campbell,  
William Alexander Curtis,  
Arthur Berricdale Keith, Donald  
Allan Macnaughton, Thomas  
Stewart Macpherson, William  
Cuthbert Morton.

*Class. ii.*, David William Inglis,  
Ethelwyn Lemon, William  
Mackenzie, George Robert  
Thomson Ross.

*Class. iii.*, Marcus Dods.

*Phil. i.*, Charles Macfie Campbell,  
Bruce M'Ewen, Frances Helen

Melville, George Claus Rankin,  
George Robert Thomson Ross.

*Phil. ii.*, Alfred George Hogg.

*Math. and Nat. Phil. i.*, Richard  
Bell, Alexander Brown, James  
Chalmers Leighton.

*Math. and Nat. Phil. ii.*, David  
Macrae Aitken, George Ednie,  
William David Proudfoot.

*Eng. i.*, George Dundas Craig.

*Hist. i.*, John M'Farlane.

## 1898.

*Class. i.*, Victor Caldwell, William  
Dunbar, John Lees, Bernard  
Herrmann Richardson, James  
Stirling Ross.

*Class. ii.*, Alexander Flint, David  
Lindsay Norrie.

*Class. iii.*, Rosa Gertrude Caroline  
Stoltz.

*Phil. i.*, Archibald Scott Ballan-  
tyne, Alexander Darroch, John  
Adam Gray, David Hutchison  
Macgregor, Alexander Mair,  
Æneas Rose.

*Math. and Nat. Phil. i.*, Ernest  
Masson Anderson, B.Sc., James  
Mitchell Low, John Brothie  
Meiklejohn, Hugh Mitchell,  
James Thomas Young, B.Sc.

*Math. and Nat. Phil. ii.*, Henry  
Alfred Braine, Patrick Sinclair  
Hardie, James Lornie.

*Math. and Nat. Phil. iii.*, Donald  
Banks, William Thomson.

*Eng. ii.*, Charles Henry Moore,  
William Porter.

*Mod. Lang. i.*, George Brown,  
James Melville.

*Mod. Lang. ii.*, Jessie Annie  
M'Kechnie.

*Hist. ii.*, Bessie Brown Bird,  
Alexander Barrie Robb.

1899.

*Class. i.*, James Young Bell, James Crerar, Augusta Murray Campbell Davidson, Charles Gordon Mackay.

*Class. ii.*, Donald James Boyd, Joseph Hardie Cattanach, Kenneth Neville Knox, Henry Crawford Liddell, Herbert Smiles, Ralph Alex. Wilson.

*Phil. i.*, Thomas Miller Forsyth, Lillias Amélie Geraldine Fraser, John Mackintosh Shaw.

*Phil. ii.*, George Wedderspoon.

*Math. and Nat. Phil. i.*, Robert Duncan Bell, David Drysdale, James Macdonald Dunnett, Archibald Milne, Samuel Findlater Stewart.

*Math. and Nat. Phil. ii.*, George Aimer Russell, Henry Wilkie.

*Math. and Nat. Phil. iii.*, Alexander Waddell.

*Eng. i.*, Thomas Paterson.

*Eng. ii.*, William Geddie, Charles Frederick Grant.

*Mod. Lang. i.*, Bessie Hunter Auld Robson.

1900.

*Class. i.*, James Bryce Jamieson, Kenneth Maclellan, William David Russell Prentice, William Rennie, Isabella Watt Stevenson.

*Class. ii.*, Thomas Davidson, George Victor Dunnett, Francis John Gordon, Harry Campbell Norman, Douglas Galton Robertson, Alexander Thomson, Roderick Barron.

*Phil. i.*, Alexander Mackie.

*Phil. ii.*, Edith Sophia Hooper, Jessie Chrystal Macmillan, B.Sc.

*Math. and Nat. Phil. i.*, Jessie Chrystal Macmillan, B.Sc.

*Math. and Nat. Phil. ii.*, Edward

Blades, David Moncrieff Johnstone.

*Math. and Nat. Phil. iii.*, Robert Norrie.

*Eng. i.*, Edith Sophia Hooper, John Purves.

*Eng. ii.*, John MacRae, Richard Hunter Moar.

*Mod. Lang. i.*, Jessie Lees, Johanne Frederikke Thomsen, Mary Tweedie.

*Mod. Lang. ii.*, Jessie Alice Linton, Robert Taylor.

*Hist. iii.*, Robindra Kumar Naug.

1901.

*Class i.*, Hector James Anderson, James Anderson, John Menzies Baillie Duncan, Alexander Duthie, Francis Henry Tower Gray, Norman James Henderson, William Pryde, Christina Macdonald Ross.

*Class ii.*, Alexander Cunnison, George Turner Ford, John M'Kinnon Hendrie, Matthew Smith Ketchin, James Ian Macpherson, Gertrud von Petzold, Alfred John Sturrock.

*Class iii.*, John Alex. Ferguson.

*Phil. i.*, Alexander Watson M'Clymont.

*Phil. ii.*, Marion Isabella Gray.

*Phil. iii.*, James Waterston.

*Math. and Nat. Phil. i.*, Roderick M'Leod Shearer.

*Math. and Nat. Phil. ii.*, Alexander Robert Normand, John George Sutherland.

*Eng. i.*, John Inch Low.

*Eng. ii.*, Margaret Smith Cleghorn.

*Eng. iii.*, Jean Hill Macnair.

*Mod. Lang. i.*, Mary Ellen Macdonald Clark, Janie Middleton.

1902.

*Class. i.*, George Frank Dingemans, Charles Goodall, John Macintyre Sutherland, Walter Ernest Wait.

*Class. ii.*, Wm. Browne Brander, Walter Booth Gravely, Catherine Anne Nicolson, Wm. Cowper Robertson, Alexander Mackintosh Shaw.

*Class. iii.*, Hans Friedrich Egge-ling, James William Meldrum.

*Phil. ii.*, Geo. Anderson Smillie.

*Math. and Nat. Phil. i.*, Alexander Gray, George Philip,

William Nairn Prophet, Edward Burns Ross.

*Math. and Nat. Phil. ii.*, John Ambrose Abercromby Morrison, Walter Glendinning Napier.

*Eng. i.*, George Alex. Waters.

*Eng. ii.*, Jeanie Cardno Rait, Mary Gordon Williamson.

*Mod. Lang. i.*, Wilhelmina Gladstone Jameson, Margaret Turnbull Spears.

*Mod. Lang. ii.*, Flora O'Riordan.

*Mod. Lang. iii.*, George Milne Harper.

*Hist. i.*, Mary Gordon Williamson.

## HONOURS OBTAINED AFTER GRADUATION.

1899.

*Phil. iii.*, Peter Campbell (M.A.).

*Mod. Lang. ii.*, Isabella Murray Ogilvie (M.A.).

1901.

*Class. ii.*, George Wedderspoon, M.A.

*Phil. i.*, Hugh Oswald, M.A., Robert George Patterson, M.A.

*Eng. iii.*, Alexander Coghill Murphy, M.A.

1892.

*Phil. ii.*, Alexander Duthie, M.A.

*Eng. i.*, William Landells, M.A.

*Mod. Lang. i.*, Margaret Duncan Black, M.A.

*Econ. Sc. ii.*, Thomas Fraser Scott, M.A., Ernest Shearer, M.A.

## ORDINARY DEGREE, 1901-1902.

27th July 1901.

John Adamson.  
Charles M'Neil.  
Shankar Nath.

John Stewart.  
Basil Harry Watt.

19th October.

Cowan, Hugh Montgomerie.  
Donaldson, James Johnston.  
Gall, William John Reid.  
Gemmill, William.

5 Herford, Margaret Angela.  
M'Dougall, John.  
M'Gilchrist John.

M'Kerron, George Grant.  
Maclean, Donald Macdonald.  
10 Marshall, Robert Campbell.  
Paton, David.  
Pearson, Alexander Lyall.  
Sutherland, John Young.  
14 Whalley, Ethel.

11th April 1902.

Aikman, James Hlislop.  
Alexander, John.

Barclay, Alexander.  
Birrell, John Hamilton.

- 5 Brebner, Innes Wares.  
Brook, Herbert.  
Cameron, Kenneth.  
Cameron, Margaret Wales.  
Corner, Samuel Gordon.
- 10 Dallas, Alexander Richard.  
Don, Andrew Chalmers.  
Douglas, Robert.  
Doull, William Moore.  
Eadie, William.
- 15 Ewan, Margaret Jane.  
Finlay, Thomas Matthew.  
Forbes, John Richard Mac-  
kenzie.  
Gilmour, Janet.  
Goodfellow, Elizabeth Pater-  
son.
- 20 Govan, Mary Stevenson.  
Grant, Neil Forbes.  
Hamilton, James.  
Henderson, William M'Alpine  
Pollock.  
Hislop, David Hall.
- 25 Howison, Andrew.  
Hunter, Charles Lamb.  
Jackson, Thomas.  
Jamieson, Hugh.  
Johnstone, Daniel.
- 30 Jolly, Mary Croll.  
Kitchin, George.  
Leonard, Hugh Goodwin  
Russell.  
Lindsay, Thomas Scott.  
Lownie, Charlotte Reade.
- 35 Lowson, James Prain.  
M'Cugan, Annie.  
MacGregor, Agnes Ann.  
M'Gregor, Margaret.  
Mackay, George Munro.
- 40 Mackinnon, Robert Bruce.  
M'Nab, Girdwood Octavius.  
M'Quillen, George Gillespie  
James.  
Meikle, Henry William.
- 45 Meister, Carlotta Sarah  
Madeleine.  
Miller, Donald John.  
Miller, John Macinnes.  
Mitchell, Alexander.  
Morris, David Watson.
- 50 Murdoch, James Alexander  
Douglas.  
Murray, James.  
Murray, John.  
Murray, Lizzie Balfour.  
Nicholson, Robert James.
- 55 Nicoll, David Bisset.  
Nisbet, Harriet Steven.  
Oastler, John Watson.  
Paterson, John.  
Pennell, Charles Stuart.
- 60 Pirie, John Lyon.  
Reid, Elizabeth.  
Riach, Edith Robertson.  
Richers, Joseph Edward.  
Ritchie, Robert Jeffrey.
- 65 Ross, James Paull.  
Rutherford, Thomas Hervey.  
Samad, Mahomed Abdul.  
Scobie, James.  
Scott, Andrew Hamilton.
- 70 Sibbald, Jessie Jack Muir.  
Sibbald, Margaret M'Nicoll.  
Simpson, Samuel Raleigh.  
Smith, John.  
Steele, John.
- 75 Swanston, May Orphoot.  
Thomson, Margaret Louisa.  
Traill, William M'Intosh.  
Trench, Isobel Jean.  
Walker, John.
- 80 Watson, Hugh Ballingall.  
Watson, James.  
Watson, Mary Elizabeth.  
Wilson, John Stuart.  
Wishart, Ernest Henry.
- 85 Wright, James.  
Younger, Robert.



## SCHOOLMASTER'S DIPLOMA, 1901-1902.

The Diploma was conferred on the following Candidates :—

*A.*—DIPLOMA FOR TEACHERS IN SECONDARY SCHOOLS.

*11th April 1902.*

Margaret Duncan Black, M.A., Edin. (with First Class Honours in Modern Languages).

Wilhelmina Gladstone Jameson, M.A., Edin. (with First Class Honours in Modern Languages).

Margaret Turnbull Spears, M.A., Edin. (with First Class Honours in Modern Languages).

John George Sutherland, M.A., Edin. (with Second Class Honours in Mathematics).

*B.*—GENERAL DIPLOMA.

*11th April 1902.*

Margaret Jane Ewan, M.A., Edin.

Mary Stevenson Govan, M.A., Edin.

Annie M'Cugan, M.A., Edin.

Harriet Steven Nisbet, M.A., Edin.

Elizabeth Reid, M.A., Edin.

Samuel Robertson, M.A., Edin.

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# Bursaries, Prizes, Scholarships, and Fellowships in Arts.<sup>1</sup>

## I.—BURSARIES.

NOTE.—From the sums given below Income Tax will be deducted, which may be recovered by the Bursars; and in some cases a deduction will be made for expenses of administration. The accuracy of the figures is not guaranteed.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	16—	George Heriot.	<i>At present</i> £570 0 0	19	3	£30 0 0	Governors of George Heriot's Trust.
		Do. Bursaries for Women.	660 0 0	22	3	30 0 0	Do.
		Do. Geo. Heriot's School University Bursaries.	630 0 0	21	4	30 0 0	Do.
		Do. High School Univer. Bursaries.	180 0 0	6	3	30 0 0	Do.
II.	1619	Archibald Johnston, Merchant in Edin.	13 0 0	1	4	13 0 0	Earl of Haddington.
III.	{ 1622 1764 1766	John Trotter of Mortonhall, and Rev. J. Penman of Bothkennar.	12 18 1	1	4	12 18 1	Trotter of Mortonhall and Gilmour of Craigmillar, alternately.
IV.	{ 1626 1629 1640 1726	Hugh Wight, David M'Call, and David Christie.	13 1 1	1	4	13 1 1	Town Council.
V.	1639	Dr Robt. Johnstone of London.	31 10 0	2	4	15 10 0	Hope Johnstone of Annandale.
VI.	1639	Do. do.	25 0 0	2	4	12 10 0	Town Council.
VII.	{ 1642 1653 1696	Weir, Jenkins, Hepburn, and Lightbody.	11 7 9	1	4	11 7 9	Town Council, 1st and 2nd Presentations, and Campbell of Aberuchill, 3rd Presentation.
VIII.	{ 1644 1673	Jas. Dalgliesh. and Jn. M'Morran.	13 17 8	1	4	13 17 8	Town Council.
IX.	1678	John Penman, Bailie and Merchant, Edinburgh.	14 15 0	1	4	14 15 0	Society for the Benefit of the Sons of the Clergy.
X.	1678	Hector Ford of Branxton.	33 6 6	3	4	11 2 2	Town Council.
XI.	1687	Sir Andrew Ramsay of Abbotshall.	11 2 2	1	4	11 2 2	Do. and Ministers of Edinburgh.
XII.	1698	Ad. Chrystie, Under Clerk of Session.	18 0 0	1	4	18 0 0	Faculty of Advocates.
XIII.	1702	Thos. Bryson, Bailie and Merchant in Dunbar.	24 0 0	2	4	12 0 0	Ministers of the Presbytery of Dunbar.
XIV.	{ 1703 1725	Pringle and Wardrop.	17 13 10	1	4	17 13 10	Pringle of Torwoodlee and J. C. Wardrop, W.S., alternately.

<sup>1</sup> See Conditions, page 172.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
XV.	1714	Rev. Robert Brown, of Protestant Consistory at Zamose.	£25 0 0	2	4	{ 15 0 0 10 0 0	Town Council.
XVI.	1723	Alexander Mitchell and James Shortt.	22 0 8	1	4	£22 0 8	Livingston Learmonth of Parkhall and his heirs; Earl of Morton and his heirs.
XVII.	1734	Laurence Dundas, Professor of Humanity in the University of Edin.	About 42 0 0	2	4	About 21 0 0	Jas. Dundas of Dundas, Robt. Dundas of Arniston, and Dundas of Carronhall, by turns.
XVIII.	1768	Thos. Fraser, Clerk in the office of City Clerk, Edinburgh.	43 10 0	2	7	21 15 0	The Provost, Dean of Guild, and Treasurer of Edin.
XIX.	1784	William Hume, Eastbarns, Dunbar.	24 0 0	2	4	12 0 0	Ministers of the Presbytery of Dunbar.
XX.	1784	Rev. Jas. Millar and Spouse.	24 0 0	1	4	24 0 0	Kirk-Session of Kippen.
XXI.	1809	Dr Donald Grant, London.	About 180 0 0	4	4	About 45 0 0	Earl of Seafield, and James Mackenzie, W.S., as Dr Grant's Trust; whom failing, Sen. Acad.
XXII.	1810	Rev. James Stuart.	36 0 0	2	3	18 0 0	Senatus Academicus.
XXIII.	1837	James Menzies.	200 0 0	4	4	45 0 0	Sir R. Menzies, Bart., & Ministers of Dull. Weem, & Fortingall.
XXIV.	1837	Peter Dow, Esq. of Balmyle.	20 0 0	2	4	10 0 0	P. S. Keir, Esq. of Kindrogan, J. Small, Esq. of Dinanean, and W. A. Keir, Esq., Yr. o Kindrogan.
XXV.	1838	Robert Blair, D.D., Barton St Andrews, Norfolk.	9 12 6	1	3	9 12 6	Principal, and Profs of Latin, Greek, Mathematics, Logic & Metaphysics, and Moral Philosophy.
XXVI.	1846	John Jamieson, Esq., Edinburgh.	About 26 0 0	1	4	About 26 0 0	Principal, & two Profs of the University.
XXVII.	1846	G. P. Bidder, C.E.	43 12 0	1	4	43 12 0	Senatus Academicus
XXVIII.	1852	Wm. Lennie, Esq.	48 0 0	4	4	12 0 0	Town Council.
XXIX.	1853	John Bruce, Esq., Trinity Crescent, Edinburgh.	160 0 0	{ 1 4	{ 4 4	{ 40 0 0 30 0 0	{ Do.
XXX.	1858	M'Diarmid Trustees.	10 0 0	1	3	10 0 0	Senatus Academicus
XXXI.	1860	Wm. Patrick, Esq., of Roughwood.	About 150 0 0	3	4	About 50 0 0	Principal and Professors in Arts.
XXXII.	1858	Edin. Ayrshire Club.	60 0 0	2	2	30 0 0	Edin. Ayrshire Club
XXXIII.	1863	Peeblesshire Society.	20 0 0	1	4	20 0 0	Peeblesshire Society
XXXIV.	1864	Edin. Caithness Association.	10 0 0	1	4	10 0 0	Edin. Caithness Association.

<sup>1</sup> See Conditions, page 174.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars	For Years.	Annual Allowance to each Bursar.	Patrons.
XXXV.	1864	A.H. Rhind of Sibster.	Interest of £500 0 0	1	4	About £20 0 0	Edin. Caithness Asso.
XXXVI.	1865	Mrs Margt. Tyndall Bruce, of Falkland.	165 0 0	3	3	35 0 0	} Senatus.
XXXVII.	1865	Horsliehill Scott.	66 12 8	2	2	20 0 0	
XXXVIII.	1867	Miss Hannah Harrison, of Lasswade.	25 5 0	1	2	33 6 4	Do.
						25 5 0	Do.
XXXIX.	1867	Rev. John Spence.	About 200 0 0	5	2	{ 1st Year 30 0 0 2nd Year 35 0 0 40 0 0 3rd Year. 20 0 0	} Governors of the Spence Bursary Trust.
						50 0 0	
XL.	1869	Edin. Border Counties Association.	50 0 0	1	1	30 0 0	} Edinburgh Border Counties Assoc.
	1872			1	4	20 0 0	
XLI.	1869	Argyllshire, Bute, and Western Isles Asso.	20 0 0	1	3	About 20 0 0	Argyllshire Association.
XLII.	1870	Stewart of Ardvorlich.	16 0 0	1	4	16 0 0	Proprietor of the Estate of Ardvorlich.
XLIII.	1870	David Cowan.	About 35 0 0	1	2	About 30 0 0	} Governors of Ayr Educational Trust.
					1	20 0 0	
XLIV.	1871	J. Robertson Sibbald.	150 0 0	5	3	30 0 0	Tr. of Dr J.R. Sibbald.
XLV.	1872	Angus Club.	25 0 0	1	4	25 0 0	Angus Club.
XLVI.	1873	Earl of Zetland.	About 40 0 0	1	3	About 40 0 0	Trustees of Earl of Zetland.
XLVII.	1873	The Grierson Trus.	104 0 0	4	4	20 0 0	} Senatus Acad.
XLVIII.	1874	Upper Ward of Lanarkshire.	20 0 0	2	4	26 0 0	
XLIX.	1874	Johnstone of Harthope.	16 5 0	1	4	20 0 0	Upper Ward Assoc.
			About 40 0 0	1	4	16 5 0	Senatus Acad.
L.	1874	James Lambert.	About 40 0 0	1	4	About 40 0 0	Senatus Acad.
LI.	1875	Robert Marshall.	32 10 0	1	4	32 10 0	Senatus Acad.
LII.	1876	J. Fotheringham of Heathpool.	39 12 6	2	4	19 16 3	Senatus Acad.
LIII.	1877	Earl of Zetland.	About 40 0 0	1	3	About 40 0 0	Trustees.
LIV.	1878	Edin.E. Lothian Asso.	20 0 0	1	3	20 0 0	Association.
LV.	1878	Jas. Gillan, Forres.	63 0 0	3	3	21 0 0	Mr Gillan's Trustees.
LVI.	1878	Dr Andrew Thomson.	100 0 0	4	4	25 0 0	Trus. of Dr Thomson.
LVII.	1880	Rev. John Patterson.	16 2 4	1	2	About 16 2 4	Senatus Academicus.
LVIII.	1881	Thomas Carlyle.	About £160	8	4	20 0 0	Senatus Acad.
LIX.	1883	Subscribers to Mackinnon Testimonial	£60 18 6	3	3	20 6 2	Senatus Acad.
LX.	1882	James Whitelaw.	71 2 6	3	3	23 14 2	Senatus Acad.
LXI.	1883	William Renton, Edinburgh.	20 0 0	1	1	20 0 0	Prof. Chrystal, Tait, Crum Brown, and Nicholson.
LXII.	1883	Isabella Macdougall.	About 120 0 0	4	3	About 30 0 0	Trustees.

<sup>1</sup> See Conditions, page 176.

No. of Founda- tion.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
LXIII.	1886	Rob. P. Newton of Castlandhill.	£90 16 8	4	2	£22 14 2	Senatus Academicus.
LXIV.	1886	Pet. C. Mann of Nairn and Durham.	80 0 0 About	3	3	26 13 4 About	Senatus Academicus.
LXV.	1886	Richd. Allan, Feuar, Kelso.	90 0 0	3	3	30 0 0	Trustees of R. Allan.
LXVI.	1887	Mrs Kidd of Aigbarth (Fairbairn).	34 0 0 About	1	4	34 0 0 About	Senatus Academicus.
LXVII.	1887	Charles Jardine of Thorlieshope.	280 0 0 About	8	4	35 0 0 About	Senatus Academicus.
LXVIII.	1887	Charles Howatson, Esq. of Dornel and Glenbuck.	27 0 0 About	1	3	27 0 0 About	Trustees.
LXIX.	1888	Mrs H. E. Morrison (Mackenzie).	27 0 0 About	1	4	27 0 0 About	Senatus Academicus.
LXX.	1889	Daniel Maclaurin, London.	68 5 0 About	1	4	68 5 0	Town Council.
LXXI.	1889	James Simson, Edinburgh.	150 0 0	6	3	25 0 0	Presbytery of Edinburgh.
LXXII.	1890	George Cousin.	28 0 0	1	3	28 0 0	Senatus Academicus.
LXXIII.	1890	Rev. Thomas Maule.	85 10 0	4.	6	21 7 6	Principal, and Profs. of Humanity & Greek.
LXXIV.	1891	Donald Fraser, M.D., London, and Endowment Association.	51 0 0	1	1	51 0 0	Senatus Academicus.
LXXV.	1897	Misses Baxter of Balgavies.	60 0 0 About	2	3	30 0 0 About	Senatus Academicus.
LXXVI.		James Stewart, Duart.	35 0 0	1	3	35 0 0	Kirk-Sess. of Callander and Trossachs.
LXXVII.	1901	United Free Church.	30 0 0	3	0	30 0 0	United Free Church.

## CONDITIONS OF TENURE.

I. These *Heriot Bursaries* are for Students unconnected with the George Heriot's School, entering upon a regular Curriculum in Arts or Science with a view to graduation. *Bursars*—1901, Alex. K. Jameson, John D. M'Ewen, John L. Watson, Thomas A. B. Smith, John Stevenson, William Ferrier.

*Heriot Bursaries for Women.* These Bursaries are for Women Matriculating for the first time at the University with a view to graduation in Arts or Science, and cannot be held along with any other Bursary or Scholarship, without the express sanction of the Patrons. *Bursars*—1901, Margaret M. Robertson, Jessie H. Purdie, Julia M. C. Waltenberg, Barbara R. A. Brown, Jeannie C. Bowie, Arabella S. Furnell.

*George Heriot's School University Bursaries.* These are awarded by competitive examination among Scholars attending the George Heriot's School, and may be held at any University approved by the Governors. *Bursars*—1901, William T. Gordon, John W. Frew, Andrew Duncan, Robert M'Intosh, Hugh B. Murdoch.

<sup>1</sup> See Conditions, page 180.

*Heriot High School University Bursaries.* These are awarded by competitive examination among Scholars attending the High School, Edinburgh, and may be held at any University approved by the Governors. *Bursars*—1900, *James G. Mitchell, Andrew H. Cuthbert*; 1901, *James F. Finlayson, Peter Milne.*

II. *A. Johnston Bursary.*—Each Bursar is entitled to hold this Bursary for four years, subject to the conditions that he shall pass such examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and pass the Examinations for M.A. appropriate to each year. No one is permitted to hold the Bursary along with any other Bursary in the University. The Bursar must attend the Classes in the Arts Curriculum. *Bursar*—1900, *Oswald H. Ewing.*

III. *Trotter and Penman Bursary.* This Bursary is held under the same conditions as No. II. *Bursar*—1900, *T. J. Anderson.*

IV. *Wight, McCall, and Christie Bursary.* This Bursary is held under the same conditions as No. II.

V. and VI. *R. Johnstone Bursaries.*—By Ordinance No. 82, the holder of each of the four Robert Johnstone Bursaries is entitled to hold his Bursary for four years, subject to the condition that he shall pass the Preliminary Examination or its equivalent, and shall proceed through the Curriculum in Arts, and regularly pass the Examinations required for the degree of M.A. No person is allowed to hold any of these Bursaries along with any other Bursary in the University. Agents, Messrs Hope, Todd & Kirk, W.S., 119 Princes Street, Edinburgh, agents for the Patron. *Bursars*—*John Graham, Andrew Glendinning.*

VII. *Weir, Jenkins, Hepburn, and Lightbody Bursary.*—For a Student in Arts, who must pass the Preliminary Examination or its equivalent, and follow the Curriculum for the Degree of M.A.

VIII. *The Dalgliesh and Macmorran Bursar* must pass the Preliminary Examination or its equivalent, and proceed through the Curriculum in Arts in the University, and regularly pass the Examinations required for the Degree of M.A.

IX. *Penman Bursary.*—The Bursar must attend the Classes in the Arts Curriculum. *Bursar*—1901, *Alexander F. Jack*, for another year.

X. Each *Ford Bursar* is entitled to hold his Bursary for four years, subject to the condition that he shall pass the Preliminary Examination or its equivalent, and shall proceed through the Curriculum in Arts, and regularly pass the Examinations required for the Degree of M.A. No person is permitted to hold any of the Bursaries along with any other Bursary in the University.

XI. The *Sir A. Ramsay Bursar* holds his Bursary for four years, subject to the condition that he shall pass the Preliminary Examination or its equivalent, and shall proceed through the Curriculum in Arts, and regularly pass the Examinations required for the degree of M.A. No person is permitted to hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University.

XII. The *Chrystie Bursary* is held for four years. Candidates must pass the Preliminary Examination or its equivalent. The Bursar is taken bound to attend "the usual classes," and must produce yearly to the Faculty certificates from the respective Professors of his due attendance, and the diligent prosecution of

his studies. Candidates are referred for information to the Clerk to the Faculty of Advocates, Advocates' Library.

XIII. The *Bryson Bursars* must pass the Preliminary Examination or its equivalent, and are first to enter the Humanity class : afterwards to pass through the rest of the classes in Arts until their Laureation ; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology.

XIV. The *Pringle and Wardrop Bursary*.—The Bursar must pass the Preliminary Examination or its equivalent, and attend the classes in the Curriculum in Arts for M.A. *Bursar*—*James W. E. Gladstone*.

XV. The *Brown Bursaries* are payable to Bursars who must pass the Preliminary Examination or its equivalent, and attend the regular course of study in Arts for M.A.

XVI. The *Mitchell and Shortt Bursary* is payable to a Student who must pass the Preliminary Examination or its equivalent, during the regular course in the Faculty of Arts. *David Campbell, S.S.C., 31 Moray Place, Agent for the Earl of Morton.* *Bursar*—*John Robertson*.

XVII. *Dundas Bursaries*.—By Ordinance No. 78 of the Universities' Commissioners, each person presented to either of the Dundas Bursaries is entitled to hold the same for four years as a Student of Arts, subject to the conditions that he shall pass the Preliminary Examination or its equivalent, and proceed through the Curriculum in Arts, and shall regularly pass the Examinations required for M.A. These Bursaries cannot be held with any other Bursary in the University. *Bursar*—*Thomas Crockett*.

XVIII. The *Fraser Bursaries*.—Bursars must pass the Preliminary Examination or its equivalent, and proceed through the curriculum till they finish their course and take the Degree in the Faculty of Arts. The Bursaries are held for three years thereafter ; the Bursars making their election whether to follow Divinity, Law, or Medicine. Two Classes at least must be attended each Winter Session. Candidates should apply to the City Clerk, Council Chambers, Edinburgh.

XIX. The conditions of the *Hume Mortification* correspond with those of Bryson's, No. XIII., and the presentations and payments are made as in that case.

XX. *Millar Bursary*.—To be held by a Student intended for the Ministry in the Church of Scotland, during his Curriculum in the Faculty of Arts. Bursar must pass the Preliminary Examination or its equivalent. *Bursar*—*James F. Alexander*.

XXI. The *Grant Mortification*. Tenable in the Faculties of Arts, Science, Divinity, Law, or Medicine. Applications for information may be made to Messrs Mackenzie, Innes, & Logan, W.S., 23 Queen Street, Edinburgh.

XXII. *Stuart Bursaries*.—Open to Students entering upon the second year of their course for graduation in Arts or in Pure Science. The said Bursaries shall be tenable for three years, provided that if the holders graduate at the end of their second year of tenure they shall only retain their Bursaries during the third year of tenure if they engage in a course of study approved by the Senatus Academicus



in subjects included in the Curriculum for Degrees in Arts or in Pure Science. *Bursars*—1901, *John Kellie, W. S. MacKellar*, for one year.

XXIII. *Menzies*.—These Bursaries, four in number, were founded in 1837 by James Menzies, Esq., Glasgow. They are of the annual value of £45 each, but vary in amount at discretion of the patrons, and tenable for four years, in any one of the Universities of St Andrews, Glasgow, or Edinburgh. Preference first to the relations of the Founder; next, to the name of Menzies; failing whom, to persons born on the estate of Sir Robert Menzies, Bart., within the parishes of Dull, Weem, and Fortingall; failing whom, any Student who shall be found best qualified may be appointed. Candidates must pass the Preliminary Examination.

XXIV. *The Dow Bursaries* are tenable for four years, "at any of the Scottish Universities, St Andrews in preference." Apply to the Patrons.

XXV. The *Blair Bursar* must pass the Preliminary Examination, attend the Classes, and pass the Examinations necessary for the Degree of M.A. *Bursar*—1898, *R. F. Lindsay*.

XXVI. The *Jamieson Bursary* is for the benefit of the sons of schoolmasters, farmers, mechanics, and labourers, born and residing within any one of the following parishes—viz., Crawfordjohn, Crawford, united parishes of Lamington and Wandell, united parishes of Wiston and Robertson, Culter and Biggar. The Bursar must pass the Preliminary Examination or its equivalent. He may attend Classes in any of the Faculties. *Bursar*—1898, *Thomas W. Stewart*.

XXVII. Called the "*Jardine Bursary*," being founded by Mr Bidder, C.E., as a memorial of the munificence of Sir Henry Jardine to him, to which he owed the advantage of his education at the University of Edinburgh. Candidates must be natives of Scotland. The Bursar must pass the Preliminary Examination or its equivalent, and attend the Classes, and pass the Examinations necessary for the Degree in Arts. *Bursar*—1890, *J. C. H. Macnair*.

XXVIII. *Lennie Bursaries*.—Bursars must pass the Preliminary Examination or its equivalent, and attend the Classes in the Arts Curriculum. Candidates should apply to the City Clerk, Council Chambers, Edinburgh.

XXIX. *Bruce Bursaries*.—Prior to the commencement of each Winter Session, five Students are presented yearly, the most distinguished of the five receiving the £40 Bursary. The Bursars must be in regular attendance on the Classes necessary for the Degree of Master of Arts. Candidates to apply to the City Clerk, Council Chambers.

XXX. The *M'Diarmid Bursary* is a memorial of the late John M'Diarmid, Esq., Editor of the *Dumfries and Galloway Courier*. Candidates must be natives of the county of Dumfries or the stewardry of Kirkcudbright. The Bursar must pass the Preliminary Examination and attend the Classes and Examinations necessary for the Degree of Master of Arts. Applications regarding the Bursary to be made to "H. Gordon, Esq., Dumfries." *Bursar*—1899, *A. J. Scott*.

XXXI. The *Patrick Bursaries* are for the assistance of those who have completed a course of education at any of the public schools or academies in the county of Ayr, where a course of Classical Study is pursued. The rectors or head teachers of each of said schools or academies may grant a certificate or letter to any number, not exceeding four, of the best scholars who have completed their course of education at such school or academy, and are in a position to enable

them to apply for admission to the University; and the parties holding such letters or certificates are entitled to present themselves for examination as candidates for the Bursaries. Failing qualified candidates, the Senatus may award by open competition. The Bursars must attend the Classes and pass the Examinations necessary for the Degree in Arts, in the order required by the Faculty. See p. 197 of CALENDAR for 1865-66. *Bursars*—1900, *John Jackson*; 1901, *John C. Turner*.

XXXII. *Ayrshire Club Bursaries*.—Restricted to natives of Ayrshire, men or women, and tenable for two years. Apply to the Secretary of the Club, Andrew White, Esq., W.S., 23 Castle Street, before 15th September. *Bursar*—1898, *W. Gemmill*.

XXXIII. *Peeblesshire Society Bursary*.—Open to Candidates of either sex who intend to pursue the Curriculum in Arts, Science or Medicine. Apply to the Secretary of the Society, P. H. Cosens, Esq., W.S., 22 York Place, Edinburgh.

XXXIV. and XXXV. *Caithness and Rhind Bursaries*.—Bursars must attend Classes in Arts Curriculum. Apply to Secretary of the Association, Mr A. Laing, S.S.C., 41 Charlotte Square, Edinburgh.

XXXVI. *Bruce of Grangehill and Falkland's Bursaries*.—Three of these Bursaries, of the annual value of £35, are awarded after competitive examination to Students of the *second* year in their course of study for a Degree in Arts; and three others, of the annual value of £20, to Students entering the *first* year of the Arts Curriculum. *Bursars*—First year, 1900, *J. B. Alexander*; *J. P. Lowson*; second year, 1899, *E. B. Ross*; 1900, *George Robertson*; 1901, *Frederick M. Philip*.

XXXVII. *Horsliehill-Scott Bursaries*.—Annual value £33, 6s. 2d., under deduction of £6, 6s. for Examiners' fees from first year's payments. Open to Students in the *third* year of their course for a Degree in Arts, and tenable for two years. The examination is in Classics, Mathematics, and Logic and Metaphysics. Deed of Foundation, at p. 208 of CALENDAR for 1866-67. *Bursar*—1901, *John Handyside, Alexander Gray*, for one year.

XXXVIII. The *Harrison Bursary* is of the annual value of £25, 5s., under deduction of £6, 6s. of Examiners' fees from first year's payments. Open to Students in the *third* year of their course in the Faculty of Arts, with a view to a degree, and tenable for two years. It is to be awarded to the competitor who shall show the greatest proficiency in Classics, Mathematics, and Logic and Metaphysics. See Deed of Endowment, p. 231 of CALENDAR for 1867-68. *Bursars*—*James Black*.

XXXIX. *Spence Bursaries*.—By the regulations of the Governors, two Bursaries, each of the annual value of £30 for the first year and £40 for second year of tenure, are open to Students of either sex who, after passing the preliminary examination, or such other examination as may from time to time be accepted by the Joint Board of Examiners as equivalent thereto, have attended one Winter Session or its equivalent in the Faculty of Arts in the University of Edinburgh, and have attended at least two classes qualifying for Graduation, and who intend to complete the course of study for the degree of Master of Arts at the University. The Governors may award to any Bursar, if they are satisfied of his or her merit, a continuation Bursary of an annual value of £50, tenable for one year, on con-

dition that the Bursar shall for that year attend such a curriculum of study in any of the Faculties as the Governors may approve. Subjects of Examination are Latin, Greek, and Mathematics. Candidates apply to Mr Henry A. Pattullo, Solicitor, 1 Bank Street, Dundee, Factor to the Trust, for particulars.

XL. *Border Counties and Sir Walter Scott Bursaries*.—These Bursaries are open to competition by Scholars (women as well as men) who have attended any school in either of the Counties of Roxburgh, Berwick, Selkirk, or Borough of Berwick-on-Tweed, for two complete sessions immediately prior to the time of their examination for the Bursaries. The Bursars must attend the classes necessary for a Degree in Arts. Application to be made to Mr T. Usher, Sheriff Court House, Edinburgh.

XLI. *Argyllshire Bursary*.—Candidates (male or female) must be natives of Argyllshire, Bute, or Western Islands. The holder must attend the classes necessary for a Degree in Arts. Application to be made to George A. Munro, Esq., S.S.C., 6 Rutland Square, Edinburgh.

XLII. *Ardvorlich Bursary*.—Open to Students of Arts, natives of the parishes of Comrie, Balquhiddier, Callander, or Killin, failing whom, to natives of Perthshire, and failing such, to the best qualified candidate. Candidates must show that they require aid in obtaining a University education. The holder must pass the Preliminary Examination or its equivalent. He will also be examined in Preliminary Gaelic, and must attend Arts or Science classes. The Bursary cannot be held with any other Bursary exceeding £25 annually. For remodelled Foundation, see CALENDAR 1887-88, p. 501; for original deed, see p. 275 of CALENDAR for 1870-71. *Bursar*—1898, *D. H. Ash*.

XLIII. *Cowan Bursary*.—Candidates must be about to enter the Curriculum in Arts. Annual value for first two years £30, and £20 for third year, to be held alternately at Edinburgh and Glasgow Universities. Information will be afforded by J. G. M'Skimming, Esq., Accountant, Ayr. *Bursar*—1898, *David Lees*.

XLIV. *Sibbald Bursaries*.—The Bursaries are available to Students in the Faculties of Arts, Medicine, Law, or Divinity, and are open to Students entering the University who have not previously attended any University in the United Kingdom or elsewhere, and who do not hold any other Bursary or Scholarship; but there will be no objection to a Candidate that he has, during the previous Summer Session, attended any of the Classes in the University of Edinburgh required by the Faculties of Medicine or Law. See CALENDAR for 1888-89, pp. 171 and 177. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 23 Queen Street, Edinburgh. *Bursars*—1898, *J. M. McIntosh*; 1900, *Thomas B. Johnston, James Gunn*.

XLV. *The Angus Club Bursary*.—Open to Forfarshire students entering the University for the first time. Application should be made to the Secretary of the Club, Mr William Whyte, S.S.C., 4 Albyn Place, Edinburgh.

XLVI. *Orkney and Zetland Bursary*.—Open in 1902 to first year Students (male or female), natives of the Islands or County of Orkney and Zetland, or children of parents one or both of whom shall have been born in or connected for a long period of years with the said Islands or County. It is tenable for three years. The Bursar must attend the Classes in the Curriculum in Arts, with a view to a Degree. Applications to be sent to Messrs Dundas & Wilson, C.S.,

16 St Andrew Square, Edinburgh. The Deed of Foundation will be found in CALENDAR for 1873-74, p. 329.

XLVII. *Grierson Bursaries*.—Four Bursaries of £20 each, and one of £24, awarded annually in November. They are restricted in the first place to natives of either of the parishes of Crawford or Leadhills, who must pass the Preliminary Examination or its equivalent. In the event of more than one preferential Candidate, the examination is competitive. If no preferential Candidates, the Bursaries are thrown open for competition to all Students then intending to enrol in the University for the First Session of the Curriculum in Arts, the subjects of examination being as for open Bursaries of the First Year. See Trust Disposition of Founder at p. 335 of CALENDAR for 1873-74, and p. 368 of the CALENDAR for 1877-78. *Bursars*—1898, *W. Booth-Graveley, J. M. Sutherland*; 1899, *George Robertson, J. H. MacLagan-Wedderburn*; 1901, *Duncan R. Matheson, R. L. Stewart*, lapsed Bursary for two years.

XLVIII. *Lanarkshire* (Upper Ward of) *Bursaries*.—Examination as for preferential Bursaries.—Bursars must attend the Classes in the Arts Curriculum. For further particulars apply to Mr R. Brown, Secretary, 28 St Andrew Square.

XLIX. *Johnstone of Harthope Bursary*. Natives of Moffat, Peebles, and Students of the name of Alexander or Johnstone preferred, if applications (with proof of birth) be made to Secretary of Senatus before 1st of September. The successful candidate must attend the Classes in the Faculty of Arts, and take the Degree of M.A. See Deed of Foundation, at p. 350 of CALENDAR for 1875-76. *Bursar*—1899, *Daniel Johnstone*.

L. *Lambert Bursary*.—This Bursary cannot be instituted until after the death of an annuitant. See Deed of Foundation, at p. 342 of CALENDAR for 1875-76.

LI. *Marshall Bursary*.—Restricted in the first place to relatives of Founder, in second place to Students of the name of Marshall, and in third place to natives of West Lothian. See Deed of Foundation, at p. 347 of CALENDAR for 1876-77. *Bursar*—1900, *John B. Marshall*.

LII. *Fotheringham and Forrest Bursaries*. Restricted in the first place to relatives of the Founder, in the second to such as are of the name of Fotheringham, and in the third place to such as are of the name of Forrest, and failing all these to be awarded as an open Bursary. The successful candidate must attend the Classes in the Faculty of Arts, and take the Degree of M.A. *Bursar*—1900, *Stephen Forrest*.

LIII. *Marquess of Zetland's Bursaries*.—These Bursaries are open to First Year Students (male or female) in the Faculty of Arts, who are natives of the Islands or County of Orkney and Zetland, or children of parents, one or both of whom shall have been born in or connected for a long period of years with the said Islands or County. For Deed of Foundation of these Bursaries, see p. 373 of CALENDAR for 1877-78. Application to be made to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh.

LIV. *Edinburgh East Lothian Association's Bursary*.—The Bursary may be competed for by any lad under the age of 18, who has been educated at any school in East Lothian, or who, having passed through all the standards or their equivalents at such schools, shall have afterwards attended for not more than

three sessions any secondary school within or without the county. Application may be made to J. Purves, S.S.C., 65 Frederick Street, Edinburgh.

LV. *Gillan Bursaries*.—Founded in 1878 by James Gillan, draper, Forres. These Bursaries are for the support at the University, and at the New College, Edinburgh, of two young men connected with the parish of Forres, and one connected with Dyke, who have declared their intention to study for the ministry of the U.F. Church of Scotland. For particulars apply to Messrs R. & R. Urquhart, Solicitors, Forres.

LVI. *Thomson Bursaries*.—Candidates of the name of Thomson or Traquair, or natives of town or county of Dumfries or city of Edinburgh, preferred. See Deed of Foundation, p. 367 of CALENDAR, 1877-78, and Scheme of Allocation, p. 346 of CALENDAR, 1879-80. Applications to be made to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street. *Bursars*—1898, C. D. O. Barrie; 1899, Robert Younger.

LVII. *Patterson Bursary, in Anglo-Saxon, Grammar, and Literature*.—Open to Students in the second, third, or fourth year of their Matriculation who have attended the class of English Literature. The holder must produce a Certificate of Attendance on the Honours Course in English Language in the first Session after his appointment. The Examination will include Anglo-Saxon, Grammar, Translations of passages of Anglo-Saxon prose and verse, and the History of Anglo-Saxon Literature. See Deed of Foundation at p. 379 of CALENDAR for 1880-81. 1901, George A. Waters.

LVIII. *John Welsh Bursaries*, founded by Thomas Carlyle in 1881, in memory of his Father-in-law, to whom the estate of Craigenputtock in Dumfriesshire, bequeathed by Mr Carlyle to the University of Edinburgh, formerly belonged. The Bursaries are paid from the rents of that estate, and are eight in number, of the value of about £20 each, tenable for four years. They are awarded, after competition, to Students entering the University, who have not studied in any other University. Four are to be given to the competitors most proficient in Mathematics, and four to those most proficient in Classics. They are not to be held with any other Bursary. See Deed of Foundation at p. 379 of CALENDAR for 1881-82. *Bursars*—(Classical)—1898, W. B. Brander; 1899, J. L. Geddie; 1900, J. L. McCallum; 1901, Thomas White. (Mathematical)—1898, J. A. A. Morrison; 1899, John Anderson, James Black; 1900, A. J. Merriles; 1901, John W. Nelson.

LIX. *Mackinnon Bursaries*.—Three Bursaries about £20, 6s. 2d., tenable for three years, to encourage the study of the Mechanical Sciences. Each Bursary is open for competition to Students entering their First Session in the Faculty of Arts. Candidates must be natives of the counties of Argyll, Bute and Arran, Inverness, Ross or Sutherland, and must be able to speak the Gaelic language. The Examination is held at the annual competition for Bursaries at the beginning of each Session, with an additional examination in Gaelic by the Professor of Celtic; at least 10 per cent. of the total marks attainable being assigned to Gaelic. Each Bursar is bound to attend at least two classes in the Faculty of Arts during his tenure, and among these six classes, at least one class of Mathematics, one of Natural Philosophy, and the class of Engineering. The Bursaries cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University, or



with any office yielding an annual income of £50 or upwards, and is tenable only during good behaviour and proficiency. *Bursars*—1899, *D. C. Gordon*; 1900, *Alexander Mackay*; 1901, *John Maclean*.

LX. *Whitelaw Bursaries*.—In memory of James Whitelaw, Watchmaker. Three Bursaries, about £23, 14s. 2d. each, tenable for three years, open to Students about to enter, or who follow the Curriculum in Arts. Cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University, or with any office yielding £50 annually, or upwards. Examination in October annually. *Bursars*—1900, *F. N. Philip*; 1901, *Walter Carter, MacLagan Wedderburn*.

LXI. The *Renton Bursary*, founded by the Trustees of the late William Renton, 20 Royal Terrace, Edinburgh, is not restricted to Students of the first year. The holder must attend one or more of the classes of Natural Philosophy, Mathematics, Chemistry, or Political Economy. Pecuniary circumstances will be taken into consideration. It cannot be held by anyone under the age of sixteen or above twenty-one, or with another Bursary of the annual value of £30 or upwards. The examination is in English and Mathematics, as for the First Year Open Bursaries. *Bursar*—1901, *David Gibb*.

LXII. The *Macdougall Bursaries* are open to Students of Edinburgh, Glasgow, and St Andrews Universities. Students attending the Gaelic Class to be preferred. The Bursaries cannot be held with any Bursary or appointment yielding upwards of £50 per annum. See Deed of Foundation at p. 435 of CALENDAR 1885-86. Application may be made to Mr W. C. Young, solicitor, Perth.

LXIII. *Newton Bursaries*.—Two are awarded annually, one to the most distinguished Student in the Junior Class of Natural Philosophy, and one in the Senior (Second) Class of Mathematics. The Bursaries are tenable for two years, and the Bursars must continue their studies in the higher branches of the subjects of their Bursaries, and at the end of the second year of tenure, either take Honours in Mathematics and Natural Philosophy, pass the 2nd B.Sc. Examination, or give other evidence of advanced study in Mathematics or Natural Philosophy. These Bursaries are not to be held with other Scholarships or Bursaries. See Deed of Foundation, p. 460 of CALENDAR, 1886-87. *Bursars*—1902 (*Math.*), *Alexander Gibson*; (*Nat. Phil.*), *John Dunbar*.

LXIV. *Mann Bursaries*.—(1.) Candidates must be children of residents in the town of Nairn, *i.e.*, one or both parents must have resided within the municipal boundaries for at least twelve months at any period prior to the competition. (2.) Applications must be lodged with the Clerk of Senatus at least three weeks before the Annual Bursary Examination of the University, along with evidence of compliance with Rule I. (3.) One will be awarded annually to the candidate, matriculating for the first time in this University, who obtains the highest marks at the Entrance Bursary Examination in English, Latin, Greek, and Mathematics, provided the Examiners be satisfied with the standard he has attained. (4.) Each will be tenable for three years, value about £26, 13s. 4d. per annum. (5.) Failing candidates of the first year, the vacant Bursary will be awarded as a second year Bursary to the candidate who obtains the highest marks in the Bursary Examination for the

second year; and, failing candidates of the first and second years, it will similarly be awarded as a third year Bursary. When awarded under this Rule it is tenable for one year only. (6.) Failing candidates qualified under Rule III. or Rule V., the Senatus may continue one of the Bursaries to its holder for a fourth year, provided he propose to continue his studies for a fourth year in some special subject. (7.) Each Bursar must be *bona fide* engaged in studying for a Degree in Arts or in Science, and must produce evidence at the end of each Winter Session that he has attended at least two classes in the Faculty of Arts, or in a Department of Science, and has made reasonable progress in his studies. (8.) Any breach of these regulations, or conduct unworthy of a scholar and a gentleman, will be punished by forfeiture of the Bursary. See Deed of Foundation, p. 497 of CALENDAR 1887-88, and Regulations at p. 544 of CALENDAR for 1890-91. *Bursars*—1899, *H. L. Mackenzie*; 1901, *William Ross*.

LXV. *Allan Bursaries*.—These Bursaries are available to Students attending classes in any of the Faculties of Arts, Medicine, or Law, in the University of Edinburgh, or to Students attending the classes in said University necessary for Degrees in Science; and are tenable for three years or for such part of that period as the Bursar shall remain a Student at the University. In nominating Candidates for presentation to the Bursaries, care will be given to prefer such as have been born in the parish of Kelso, provided they are qualified by their previous education for entering the University. Apply to P. Stormonth Darling, Esq., writer, Kelso.

LXVI. *James Fairbairn Bursary*, founded by Mrs Kidd of Palmyra, Aigbarth, near Liverpool, in memory of James Fairbairn, late Governor of Heriot's Hospital, is open to competition to first year Students, and is tenable for four years. The Bursar is required to attend the Classes necessary for Graduation in Arts, and to take the Degree at the end of the Course. The Bursary cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 501 of CALENDAR, 1887-88. *Bursar*—1900, *A. F. Giles*.

LXVII. *Jardine of Thorlieshope Bursaries*.—Open only to natives of the rural districts of Roxburghshire and Dumfriesshire (villages and towns of the population of 2000 and upwards being excluded), who have attended the Public or Board Schools in said counties. In the event of there being no first year Candidates, the Bursaries will be thrown open to Candidates of the second, third, or fourth year in succession, but will be tenable for one year only. The Bursars are required to attend the Classes necessary for Graduation in Arts, and to take the Degree at the end of the Course. The Bursaries cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 497 of CALENDAR, 1887-88. *Bursars*—1898, *J. P. Ross*, *C. L. Hunter* (four years); 1900, *James McCaig*, *David Henderson*, *George Young*; 1901, *Gilbert Carmichael*.

LXVIII. *The Glenbuck Bursary* may be held by a Student in any of the four Scotch Universities—preferably that of Glasgow or of Edinburgh. Candidates only are eligible who have resided not less than five years in the Parish of Muirkirk, and who have received part of their education at any school therein, or alternatively and postponed thereto, those who have been resident in any one of the Parishes of South Ayrshire for not less than five years, and who have received



part of their education in any school in the same Parish. For further particulars, apply to Mr R. A. Leslie, Inspector, Muirkirk.

LXIX. *MacKenzie (Stornoway) Bursary*.—Candidates of the name of MacKenzie have a preference. The Examination is the same as for First Session Open Bursaries, and the Bursary will be awarded to the Candidate who stands highest, provided he has passed the Preliminary Examination in at least two subjects, one of which must be Latin, Greek, or Mathematics on the Higher Standard. Failing a preferential Candidate, the Bursary will be thrown open to competition as a first year Bursary in Arts. The Bursar is required to attend the Classes necessary for Graduation in Arts, and to take the Degree at the end of the course. For Regulations, see CALENDAR for 1895-96, p. 748. *Bursar*—1900, *John C. Mackenzie*.

LXX. This Bursary, tenable for four years, is by the will of the founder to be called the “Maclaurin Bursary,” and is restricted to Students of the Founder’s name of Maclaurin (or in Gaelic orthography “Maclalhrin”). The holder must pass the Preliminary Examination. It may be held in any of the Faculties. See Deed of Foundation, p. 544 of CALENDAR for 1890-91.

LXXI. Six Bursaries, each of the annual value of £25, and tenable for three years in the Faculty of Arts. They are open to Students who, having passed the Preliminary Examination, are entering on the first year of the Course in Arts, and are studying for the Ministry of the Church of Scotland. For conditions of tenure and subjects of examination, apply to the Rev. George T. Jamieson, The Manse, Portobello, Clerk to the Presbytery of Edinburgh. *Bursars*—

LXXII. *Bailie Cousin’s Bursary* is open for competition to Students entering the Faculty of Arts on a regular course for the Degree of M.A. The holder must regularly pass the departmental examinations appropriate to each year. The Bursary cannot be held along with any Fellowship, Scholarship, or Bursary of any Scottish University, or with any situation or appointment yielding an annual income of £30 or upwards. For Deed of Foundation see CALENDAR 1891-92, page 536. *Bursar*—1900, *L. F. Robertson*.

LXXIII. *Maule Bursaries*—These Bursaries are for the education of poor and deserving Students. They may be held by Students prosecuting their studies in any of the Faculties. The Examination is the same as for University Open Bursaries. See Excerpt from Trust Deed, p. 543 of CALENDAR for 1891-92, and Deed of Foundation, in CALENDAR for 1894-95. *Bursars*—1898, *A. J. Ross*, *Andrew Renwick* (five years); 1899, *F. J. Chalmers*; 1900, *James Munro*.

LXXIV. *The Donald Fraser Bursary* is awarded for high merit in the University Class of Natural Philosophy, combined with proficiency in Laboratory Work. The Bursar is required to give assistance in the University Physical Laboratory, and to engage in research there. The Bursary cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. See Deed of Foundation, p. 545 of CALENDAR for 1891-92. *Bursar*—1902, *P. D. Innes*.

LXXV. *The Baxter of Balcavies Bursaries* are open both to men and women who have been educated in the High School of Dundee for at least one year immediately preceding the competition. The subjects of Examination, and the values attached to each subject, are the same as for the Open Bursaries in Arts, with the omission of Italian, and the addition of Chemistry (full marks, 50), as a subject of Examination. Candidates may select not more than five subjects, and the successful candidates may study for the Degrees of M.A., B.Sc., B.L., LL.B., or M.B., Ch.B.

The successful candidates must have passed the Preliminary Examination in Arts or Science, or its equivalent. For Regulations, see page 429 of CALENDAR for 1897-98. *Bursars—1901, W. J. C. Lawrie.*

LXXVI. *The James Stuart Bursary* is tenable by a native of Parishes of Callander or Trossachs studying in any Scottish University with a view to taking the Degree of M.A. *Patrons—*The Kirk-Sessions of Callander and Trossachs.

LXXVII. *The Masterton Memorial Bursary*, of £30 a-year, tenable for three years, for the benefit of sons and daughters of ministers and missionaries of the United Free Church. Candidates may take the Bursary Examination in five, but not more than five subjects, one of which must be either French or German. The Bursary will not be awarded to any Candidate who has not passed the Preliminary Examination (including either Latin or Greek on the Higher Standard, and either French or German) with a view to Graduation. For further information apply to Mr J. Forbes Moncrieff, C.A., 22 Hill Street, Edinburgh, before 1st September.

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## II.—PRIZES.

*See note under Bursaries, page 169.*

### I.—THE LORD RECTOR'S PRIZE.

The Lord Rectors since 1879, during their respective tenures of office, have offered a Prize of Twenty-five Guineas annually, for the best Essay on a Historical Subject.

1901. *Alexander F. Jack.*

### II.—EDINBURGH UNIVERSITY CLUB (OF LONDON) TRIENNIAL PRIZE.

A Prize of Twenty Guineas, open triennially, for competition in any of the Faculties by Graduates of the University of not more than two years' standing, is offered by the Edinburgh University Club of London (James Taylor, M.A., M.D., Hon. Secretary, 49 Wellbeck Street, London, W.), for the best Essay on a subject prescribed by the Deans of the Faculties in the following rotation (viz., Arts, Divinity, Law, Medicine, and Science), subject to the approval of the Senatus. The Prize will be open in 1904 in the Faculty of Law.

1901. *G. V. Dunnet, M.A.*

### III.—BRUCE OF GRANGEHILL AND FALKLAND'S PRIZE IN THE CLASSES OF LOGIC AND METAPHYSICS.

This Prize of £20 (with a supplementary Prize of £10 for the Junior Division of the Class) is awarded to the most distinguished student in this class, "on such conditions and competition as the Professor may direct, and on his decision," for excellence in the study of Logic and Metaphysics. It was founded in 1865, by Mrs Tyndall Bruce of Grangehill and Falkland, in commemoration of John Bruce, Professor of Logic and Metaphysics in the University, 1774-1786.

1902. *G. G. Campbell.*  
*William Corkey.*  
*Alexander Duthie, M.A.* } *equal.*

### IV.—GRAY PRIZES.

The Gray Prize Essay Fund was instituted in 1851, in terms of the Will of Simon Gray, Esq., of Mornington Crescent, London. The Trustees offer annually for competition, three prizes of £15 for the first, £10 for the second, and £5 for the third best Essay on a subject to be announced on the Board at the University gate. The competition is open to students of not more than three years' standing at the commencement of the Winter Session. For further information apply to the Rev. John Blackwood Munro, Duns, Secretary to the Trustees.

1901. *Alexander F. Jack*; Hon. men.—1. *J. Roy Tannahill*;  
 2. *Charles L. Riach.*

### V.—SCOTT AND DUNBAR PRIZE.

This Prize, of the value of about £20, was founded in 1872 by the Rev. Hew Scott, D.D., of Anstruther Wester, for encouraging the study of the Greek Language in the University of Edinburgh. It is awarded annually to "the most deserving and learned student in the Greek Classes," after such Examination as may be directed by the Principal and the Professors of Divinity, Greek, and Humanity. See Deed of Foundation at p. 332 of CALENDAR, 1873-74.

1902. *G. F. Dingemans, M.A.*

### VI.—THE COUSIN PRIZE.

This Prize, founded in connection with the Class of Fine Art by the late David Cousin, Esq., is of the annual value of about £15, 4s., and is awarded at the close of each session for proficiency in Class Essays set from time to time by the Professor. See Excerpt from Mr Cousin's will in CALENDAR, 1880-81, p. 380.

1902. *John Alexander, M.A.*

### VII.—KELLAND MEMORIAL PRIZE.

The Committee for promoting a Memorial to the late Professor Kelland has handed over to the University the sum of £147, 10s., for the purpose of founding a Prize to be called the "Kelland Memorial Prize," to be awarded annually to the most distinguished Student in

Pure Geometry in the Junior Mathematics Class. The value of the Prize is about £4, 12s.

1901. *Henry Ireland.*

#### VIII.—GLADSTONE MEMORIAL PRIZE IN HISTORY, POLITICAL SCIENCE, AND ECONOMICS.

This Prize, of the value of £5 in books, is awarded annually to the student who, in the opinion of the Professors of History, the Professor of Political Economy, and the Professor of Public Law, has obtained the highest distinction within the two preceding years in any two of these subjects. A student to whom the Prize has been awarded will not be re-eligible. Applications, with the necessary Certificates, to be lodged with the Clerk of Senatus not later than 30th March.

1902. *Hugh M. Cowan, M.A.*

#### IX.—THE BLACKIE CELTIC PRIZE.

This Prize of about £50, for promoting the study of the Celtic Language and Literature, is open triennially in October to Matriculated Students of the University, and to Graduates of any Scottish University, under the age of 30 and within six years of the date of their graduation. The Examination is in the Gaelic Language and Literature, and if the Examiners think fit also in any other branch of the Celtic language. The Prize will be open in October 1902. See Regulations at page 828 of CALENDAR for 1900-1901.

#### X.—ELIZABETH HAMILTON PRIZE.

This Prize of £5 is offered, in alternate years, to the best Woman Student in the Ordinary Classes of Logic and Psychology and Moral Philosophy who desires to study for Honours, provided that her standing be not below that of the First Class Certificate. In 1902-3 the Prize will be open in Logic and Psychology.

1902. *Lizzie Murray, M.A.*

### III.—SCHOLARSHIPS.

NOTE—*From the sums given below Income Tax will be deducted, which may be recovered by the Scholars; and in some cases a deduction will be made for the expenses of administration. The accuracy of the figures is not guaranteed.*

#### I.—PITT CLUB CLASSICAL SCHOLARSHIP.

The Pitt Club Scholarship of the annual value of about £58, 10s., tenable for four years, is open for competition to all Graduates in Arts of the University, of not more than four years' standing when the competition takes place. The subjects embraced in the examination are CLASSICS and ENGLISH LITERATURE. The next competition may take place in April 1906.

1902. *William Pryde, M.A.*

## II.—MACKENZIE CLASSICAL SCHOLARSHIP.

This Scholarship was founded in 1862, by James Mackenzie, Esq., W.S. It is of the annual value of about £109, tenable for four years, and the award carries with it free admission to the Edinburgh Philosophical Institution during the years of tenure. By ordinance No. 90 of the Scottish Universities' Commissioners of 1858, it is open for competition to all Graduates in Arts in the University of Edinburgh of not more than three years' standing at the time of the competition. Candidates are examined in CLASSICAL LITERATURE and in ENGLISH LITERATURE, and the Examination is conducted by three or more Examiners selected by the Senatus from their own body. It cannot be held along with any other Scholarship, Fellowship, or Bursary, of any Scottish University. The Examinations include—1. Translations from Latin and Greek authors; 2. Composition in Latin and Greek Prose; 3. Latin and Greek Literature, and History; 4. English Essay-Writing; 5. History of English Literature. The next competition may take place in April 1905.

1901. *William Rennie, M.A.*

## III.—SIR DAVID BAXTER MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £65, 9s. 2d., and is tenable for four years. By the terms of the Deed of Foundation (given in the CALENDAR for 1864-65, p. 171) it is awarded for proficiency in the department of Mathematics, particularly in that branch of it which includes mechanical and physical science. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mathematics and Natural Philosophy. The next competition may take place in April 1904.

1900. *J. Chalmers Leighton, M.A., B.Sc.*

## IV.—SIR DAVID BAXTER PHILOSOPHICAL SCHOLARSHIP.

This Scholarship, also founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £65, 9s. 2d., and is tenable for four years. By the terms of the Deed of Foundation (given in the CALENDAR for 1864-65, p. 171), it is awarded for proficiency in the Department of Mental Philosophy. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mental Philosophy. The subjects of examination are Logic, Metaphysics, and Moral Philosophy. The next competition may take place in April 1903.

1899. *Alexander Mair, M.A.* } equal.  
*G. R. T. Ross, M.A.* }

## V.-VII.—JOHN EDWARD BAXTER SCHOLARSHIPS.

These Scholarships were founded in 1876, and are three in number, each of the annual value of about £83, and tenable for three years. One is in the Department of Classical Literature, another in Mental Philosophy, and the third in Mathematics and Natural Philosophy. They are open for competition to all Masters of Arts of the University of not more than three years' standing at the time of the competition. The Scholarship in Mental Philosophy may be open in April 1903, and those in *Mathematics* and *Classics* may be open in April 1905. See Deed of Foundation at p. 361 of CALENDAR for 1877-78.

1900. *John M. Shaw, M.A. (Phil.).*

1902. *F. H. T. Gray, M.A. (Cl.).*

*Archibald Milne, M.A., B.Sc. (Math.).*

## VIII.—DRUMMOND MATHEMATICAL SCHOLARSHIP.

This Scholarship was founded in 1865 by Miss Elizabeth Drummond, in memory of her brother, Captain Drummond, R.E., Under Secretary for Ireland. It is of the annual value of about £95, 5s., and is tenable for three years. By the Deed of Foundation (given at p. 198 of CALENDAR for 1865-66), it is open to Graduates in Arts of not more than three years' standing, who have graduated with Honours in the Department of Mathematics. It cannot be held with any other Bursary or Scholarship, and the holder is recommended to travel for the purpose of inspecting, in this and other countries, remarkable engineering and architectural structures, to extend his knowledge of the practical application of Mathematical principles; and, if required by the Senatus Academicus, to deliver reports on the principal structures examined by him, and the Mathematical principles exemplified thereby; which reports the Senatus may cause to be publicly read in the University or elsewhere in Edinburgh. The next competition may take place in April 1903.

1900. *Alexander Brown, M.A., B.Sc.*

## IX.—BRUCE OF GRANGEHILL AND FALKLAND'S CLASSICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of about £100, and is tenable for three years, during two of which the studies of the Scholar must be prosecuted in the University of Edinburgh, but in the third year they may be prosecuted in an English or Foreign University. By the terms of the Deed of Foundation (given at p. 205 of the CALENDAR for 1866-67), this and the two following Scholarships held by Students who have passed their Examinations for the Degree of Master of Arts with Honours, have hitherto been conferred upon the most distinguished in that one of the Honours Departments which is appropriated for each year. The Scholarship cannot be conferred upon any one whose age exceeds twenty-three years, and it cannot be held with any other Scholarship or Fellowship of a Scottish



University, or with any situation yielding an income of £100 per annum. in the event of the Scholarship becoming vacant during the period of tenure, through resignation or otherwise, of the Scholar, then the sum falling in shall be bestowed by the Senatus for the remaining period of tenure on a Student attending the Divinity Classes who shall be reported by the Faculty of Theology to be a meritorious Student and deserving of the Scholarship. The next award may be made in April 1905.

1902. *Charles Goodall, M.A.*

#### X.—BRUCE OF GRANGEHILL AND FALKLAND'S SCHOLARSHIP IN MENTAL PHILOSOPHY.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of about £100, and is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Logic and Psychology, Metaphysics, Moral Philosophy, and History of Philosophy. The next award may be made in April 1904.

1901. *A. W. M'Clymont, M.A.*

#### XI.—BRUCE OF GRANGEHILL AND FALKLAND'S MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of about £100, and is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Mathematics and Natural Philosophy. The next award may be made in April 1905.

1902. *Alexander Gray, M.A.*

#### XII.—GRAY SCHOLARSHIP.

This Scholarship, founded by Mr Gray of Baad Park in 1864, is of the annual value of about £89, and tenable for two years. It is awarded for distinction in one of the Honours groups of subjects for the Degree of Master of Arts, or in one of the groups of subjects for the Final Examination for the Degree of Bachelor of Science, or in the Historical and Philosophical subjects of the examination for the Degree of Bachelor of Laws, or to Students in the Faculty of Divinity for distinction in the Final Examination for the Degree of Bachelor of Divinity. It has been resolved that the Scholarship shall be offered in rotation in the Faculties of Arts, Science, Law, and Divinity. When it falls to the Faculty of Arts it will be offered in rotation in the order of the groups of Honours subjects in the Arts regulations, and when it falls to the Faculty of Science, it will be offered in one of the groups of the Second Science Examination. When not awarded in the Faculty in which it is offered, it will then be offered to the other Faculties in rotation. The holder of the Scholarship is required, as a condition of tenure, to satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research, either in the



University of Edinburgh or in another University approved by the University Court, and he must also satisfy the *Senatus Academicus* of the importance of the work he proposes to undertake, and of his qualifications for such work. In 1903 the Scholarship will be offered in the Faculty of Divinity.

1901. *J. C. Fenton, M.A.*

### XIII.—GILCHRIST SCHOLARSHIPS.

These Scholarships were founded in 1865 by the Trustees of the late Dr Gilchrist; they are three in number, each of the annual value of £100, and are open to natives of India who have passed competitive examinations at the Presidential Colleges of India. They are attached to the Medical, Law, and Literary Classes in the University.

### XIV.-XV.—FETTES EXHIBITIONS.

These Exhibitions are each of the annual value of £60, and are tenable for four years. They are open annually for competition, one among the Foundationers alone, and the other among the Foundationers and such other pupils as have attended Fettes College regularly for not less than five years.

### XVI.-XVII.—RHIND SCHOLARSHIPS.

These Scholarships were, in accordance with the will of the late A. H. Rhind, Esq., of Sibster, founded by his trustees on the reversion of his estate. They are two in number, one in the Department of Classical Literature, the other in that of Philosophy, are each of the annual value of about £80, 6s., are tenable for not less than two years, or more than three years, and are open to Undergraduates and to Graduates of not more than three years' standing at the time of the competition. Competitors must have attended classes in this University for not less than three *winter* sessions or their equivalent, attendance being defined to mean that the competitors must present Certificates of having attended at least four classes during the period aforesaid, and of having duly performed the work of the classes. The successful Candidates may be required to undertake duties connected with the teaching of the University, or otherwise assist in some department of its operations. *See* Deed of Foundation at p. 323 of *CALENDAR* for 1874-75. The next competition for the Classical Scholarship may take place in April 1904, and the next competition for the Philosophical Scholarship may take place in April 1905.

1901. *H. J. Anderson, M.A. (Cl.).*

1902. *F. M. Forsyth, M.A. (Phil.).*

### XVIII.—THE CHARLES MACLAREN SCHOLARSHIP.

This Scholarship, founded in 1871 by the Trustees of Mrs Maclaren, in memory of Charles Maclaren, Esq., the eminent geologist, is of the

annual value of about £115, 19s., and is tenable for three years. It is for the encouragement of the study of Mathematics and Natural Philosophy, and is open to all graduates in Arts of not more than three years' standing at the time of the Competition (and under 30 years of age) who shall have taken honours in Mathematics. The successful competitors are to spend a few months in travelling and in examining remarkable Engineering and Architectural Structures, and to report to the Senatus, which report the Senatus may cause to be publicly read in the University. The Deed of Foundation is given at p. 324 of CALENDAR for 1873-74. The next competition may be in April 1905.

1902. *S. F. Stewart, M.A.*

#### XIX.--NEIL ARNOTT SCHOLARSHIP FOR EXPERIMENTAL PHYSICS.

This Scholarship, value about £34, 7s. 6d., was founded in 1874, and is awarded annually to the most distinguished Student in the Physical Laboratory of the University.

The recipient must, during the ensuing Summer and Winter Sessions, assist the Professor of Natural Philosophy in the Laboratory. Failing a Student deemed by the Professor worthy of the Scholarship, it may be given to the Candidate for a Degree in Arts who has undergone the Examination in Natural Philosophy with most distinction. See Deed of Foundation, at p. 340 of CALENDAR for 1875-76.

1902. *E. MacLagan-Wedderburn, M.A.*

#### XX.-XXII.—FERGUSON SCHOLARSHIPS.

Six Scholarships, each tenable for two years ; Three are competed for annually—one for Classics ; one for Mathematics, including Natural Philosophy ; and one for Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy. The Examinations for 1902 will be held in Glasgow—the Classical *on the 23rd, 24th, and 25th*, and the Mathematical and Mental Philosophical *on the 23rd and 24th of September*.

The Competition is open to "all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not) provided that at the time of the Competition not more than six years have elapsed since the date of their first matriculation after having passed the Preliminary Examination, and who have not already gained one of these Scholarships." Candidates are required to enter their names at the Office of the Ferguson Bequest Fund, 94 Bath Street, Glasgow, not later than 1st September 1902.

For further information apply at the Office of The Ferguson Bequest Fund, 94 Bath Street, Glasgow.

## SCHOLARS, 1901.

*Classics*—William Rennie, M.A., of Edinburgh University.

*Mathematics*—David Macfarlane Stewart, M.A., of Glasgow University.

*Mental Philosophy*—Alexander Dunlop Lindsay, M.A., of Glasgow University.

## XXIII.-XXXII. VANS DUNLOP SCHOLARSHIPS.

TEN VANS DUNLOP SCHOLARSHIPS, each of the annual value of about £100, and tenable for three years, are, by the Deed of Foundation, appropriated to the following subjects:—1. English Literature and Poetry; 2. Classical Learning—Latin and Greek; 3. Commercial and Political Economy and Mercantile Law; 4. Logic and Metaphysics; 5. Natural Philosophy; 6. Mathematics; 7. Hebrew and Oriental (Semitic) Languages; 8. History; 9. Moral Philosophy; 10. Sanskrit and Comparative Philology. In terms of the Trust-Disposition (which is given at p. 380 of CALENDAR for 1880-81), the Scholarships are given only for “distinguished proficiency” in the various subjects of competition, as determined by the Examiners and the Senatus Academicus.

The following are the General Regulations for the Examinations:—

Competitors for these Scholarships must have regularly attended at least one full Course or two Half-Courses in the University of Edinburgh during each Academic year in which they claim to have been Matriculated Students, and no Candidate is eligible who has discontinued attendance at the University of Edinburgh for more than one year. The years of Academic study count from the first year in which a Candidate has attended one of the classes qualifying for the degree of M.A.

Each Scholarship is tenable on condition that the Scholar submits annually to the University evidence that he is prosecuting his studies, or his professional work, in a manner satisfactory to the Senatus. The evidence may consist of—(1) Certificates of attendance on Lectures or Laboratories in this or some other University; or (2) Certificate of having acted as Assistant to a Professor in this or some other University; or (3) A written Report of work done by the Scholar during the year, together with a Thesis composed by himself on a subject connected with that work.

Not more than one of these Scholarships can be held by the same person, and Vans Dunlop Scholars cannot hold, along with their Scholarship, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates for the Vans Dunlop Scholarships must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the Vans Dunlop Scholarship examinations may be published.

## XXIII.—ENGLISH LITERATURE AND POETRY.

Candidates are subjected to an Examination testing—(1.) Knowledge of the History of English Literature generally, and more particularly through a prescribed period; (2.) Acquaintance with certain books, chiefly of English Poetry, prescribed for special reading; (3.) Ability in English Composition, in the form of an Essay, written in the Examination Room, on some subject of literary criticism.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed five academic years either in this University alone or in this and any other University or Universities together; and who have given regular attendance in the Class of Rhetoric and English Literature, and in at least one other class on English Language or Literature. The next Competition may take place in March 1903.

The Professor of Rhetoric and English Literature, and an Examiner appointed by the Senatus, are the Examiners.

1900. *John Purves.*

## XXIV.—CLASSICAL LEARNING—LATIN AND GREEK.

1. *Latin*.—The Examination will test:—

(a.) Knowledge of Latin books and special subjects previously prescribed.

(b.) Power of Latin Composition, and of translating from Latin authors not previously prescribed.

(c.) Knowledge of Latin History and Literature.

2. *Greek*.—(a.) Knowledge of Greek books and special subjects previously prescribed.

(b.) Power of Greek Composition, and of translating from Greek authors not prescribed.

(c.) Knowledge of Greek History and Literature.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed four academic years either in this University alone or in this and any other University or Universities together; and who have given regular attendance in the Latin and Greek Classes necessary for graduation in Arts.

The next Competition will take place in October 1902.

The Professors of Humanity and Greek are the Examiners.

1899. *James Crerar, M.A.*

## XXV.—COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

The Examination will test knowledge of the subjects assigned in the Deed of Endowment to the Chair of Commercial and Political Economy and Mercantile Law. It will include the subjects embraced

in the Lectures, and also in books prescribed from time to time by the Appropriate Board of Studies.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed five academic years either in this University alone or in this and any other University or Universities together; and who have regularly attended the Class of Commercial and Political Economy and Mercantile Law. The next Competition will take place in October 1904.

The Professor of Political Economy and an Examiner appointed by the Senatus are the Examiners.

1901. *William H. Nelson.*

#### XXVI.—LOGIC AND METAPHYSICS.

The Examination will test knowledge of (a.) Logic, (b.) Psychology, (c.) Metaphysics and the History of Philosophy. It will include the subjects embraced in the Lectures on each of these branches; also prescribed Reading and Studies of special subjects.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed four academic years either in this University alone or in this and any other University or Universities together; and who have completed attendance at the Ordinary Class of Logic and Metaphysics. The next Competition will take place in October 1903.

The Professor of Logic and Metaphysics and the Professor of Moral Philosophy are the Examiners.

1900. *A. W. M'Clymont.*

#### XXVII.—NATURAL PHILOSOPHY.

The Examination will test the knowledge of the Candidates in Experimental Physics and Applied Mathematics.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed six academic years either in this University alone, or in this and any other University or Universities together; and who have attended at least two of the classes of Natural Philosophy, of which the Ordinary Course must be one. The next Examination will take place in March 1904.

The Professor of Natural Philosophy and an Examiner appointed by the Senatus are the Examiners.

1901. *Edward B. Ross.*

#### XXVIII.—MATHEMATICS.

The Examination will test Candidates in pure mathematical subjects in the Honours Department for the Degree of Master of Arts, and in special subjects to be prescribed by the Examiners from time to time.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed six academic years either in this University alone or in this and any other University or Universities together; and who have attended at least two of the Mathematical Classes, one of these being an Honours Class. The next Examination will take place in March 1904.

The Professor of Mathematics and an Examiner appointed by the Senatus are the Examiners.

1901. *Robert D. Bell, M.A.*

#### XXIX.—HEBREW AND ORIENTAL (SEMITIC) LANGUAGES.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed six academic years either in this University alone or in this and any other University or Universities together; and who have attended at least two courses under the Professor of Hebrew and Oriental Languages.

Candidates will be examined in Hebrew, Syriac, and Arabic.

The Examiners are the Professor of Hebrew and Oriental Languages, and an Examiner appointed by the Senatus. The next Competition will take place at the end of March 1905.

1902. *Macduff Simpson, M.A.*

#### XXX.—HISTORY.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed five academic years either in this University alone, or in this and any other University or Universities together; and who have attended two or more courses of Professorial Lectures on History within the University.

The Examiners are the Professors of History, and such others as may be appointed by the Senatus from time to time. The next Competition will take place in October 1904.

1901. *George M. Harper.*

#### XXXI.—MORAL PHILOSOPHY.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed four academic years either in this University alone or in this and any other University or Universities together; and who have completed attendance at the Ordinary Class of Moral Philosophy.

The Professor of Moral Philosophy and the Professor of Logic and Metaphysics are the Examiners. The next Competition will take place in October 1904.

1901. *George G. Campbell.*



XXXII.—SANSKRIT AND COMPARATIVE PHILOLOGY.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed six academic years either in this University alone or in this and any other University or Universities together; and who have attended at least two courses under the Professor of Sanskrit and Comparative Philology.

The Examiners are the Professor of Sanskrit and Comparative Philology, and another Examiner to be appointed by the Senatus. The next Competition will take place in March 1904.

1901. *H. C. Norman, M.A.*

XXXIII.—SKIRVING SCHOLARSHIP FOR MORAL PHILOSOPHY.

This Scholarship is to be founded (after the death of an annuitant) in accordance with the Will of the late David Skirving, of No. 13 Westbourne Park, London. It will be of the annual value of about £50, and tenable for three years. See Deed of Foundation at p. 350 of CALENDAR for 1876-77.

XXXIV.—LANG SCHOLARSHIPS.

This is a Bequest by the late John Lang, Esq. of Warren Park, Ayrshire, with the object of founding four Scholarships, to be called the "Lang Scholarships," one in Natural Philosophy, one in Mathematics, one in Chemistry, and one in Botany. The capital sum will be payable on the death of the survivor of two liferenters.

XXXV.—MACKAY SMITH SCHOLARSHIP IN NATURAL PHILOSOPHY.

This Scholarship is of the annual value of £25, and tenable for two years, is open for Competition to Students who have attended the Class of Natural Philosophy in this University. The successful candidate is required to attend the class of Natural Philosophy, or to prosecute the study of Natural Philosophy during at least one year of his tenure of the Scholarship, in such a way as the Senatus may direct or approve. The next award may be made in April 1904.

1902. *Thomas Oliver, B.Sc.*

XXXVI.—GEORGE SCOTT (TRAVELLING) SCHOLARSHIP.

This Scholarship of about £35, 7s. 6d., is awarded annually (a previous holder not being ineligible for re-election), for the purpose of assisting Graduates in Arts of the University, of not more than three years' standing at the date of their election as Scholars (in the selection of whom a preference shall be given to natives of



Perthshire, should any such apply) to travel for purposes of Study or Research. Applicants are required to state:—(1) The purpose for which they desire to use the Scholarship; and (2) What other means they have towards the object in view. The award will be based—(1) On the importance of the work to be undertaken; (2) the sufficiency of the means proposed to be applied to the work; (3) the capability of the applicant for the work he proposes to undertake. The holders are required in all cases to satisfy the Senatus, by half-yearly reports, that they are carrying out the work undertaken; and must present a final report or deliver a short Course of Lectures on their work when completed. The appointment is made by the Senatus on a report by the Faculty of Arts on the merits of the applicants. Preference will be given to Candidates desiring to undertake work in the following groups of subjects, under the following scheme of rotation, provided always that a suitable Candidate presents himself:—(1) Classical Languages and Classical Archæology; (2) Mental Philosophy; (3) Mathematical and Physical Science; (4) Semitic and Indian Languages; (5) English and Modern Languages; (6) History. In 1903 the first preference will be given to a Candidate in History. See Deed of Foundation in CALENDAR for 1897-98, page 419.

1902. *Elizabeth J. Ross* (Preferential Candidate).

#### XXXVII.—MACPHERSON SCHOLARSHIP.

This Scholarship is awarded annually by the Senatus Academicus to a student who has, within six years of the date of the competition, completed the examination necessary for the degree of Master of Arts in the University of Edinburgh, with or without honours, who has included in his examination the subjects of Latin and Greek, and who has attended the class of Celtic and attained distinction in that subject. The scholar must study Celtic in a University or other place offering special facilities for Celtic study, subject to the approval of the Senatus Academicus. The Scholarship is of the annual value of about £87, 12s. 10d., and is tenable for one year. Before 15th February next after his appointment the scholar must submit to the Senatus Academicus a report of the work he has done, and of such further studies in Celtic as he proposes to prosecute, and the Senatus Academicus may, if they think fit, appoint him to the said Scholarship for a further period of one year. In the case of a scholar being reappointed for a second year a new scholar cannot be appointed till the following year.

1902. *Alan O. Anderson, M.A.* (for a second year).

#### XXXVIII.—THE NICHOL FOUNDATION.

The free yearly interest or income derivable from this foundation, amounting to about £50, shall be paid to a deserving Student, who shall regularly attend and devote himself as assistant in the Physical Laboratory, and who shall be bound to give his whole time in promoting the study of Natural Philosophy in connection therewith.

It is tenable for one year, but on the recommendation of the Professor of Natural Philosophy it may be continued for a second year or longer. It cannot be held along with any Bursary or Scholarship. See Deed of Foundation in CALENDAR for 1897-98, page 419.

1901. *J. H. MacLagan-Wedaerburn.*

### XXXIX., XL.—RITCHIE SCHOLARSHIPS FOR THE STUDY OF ORIENTAL LANGUAGES.

These Scholarships, endowed by the late James Ritchie, formerly of Edinburgh, are for Candidates for the Civil Service of India. They are open annually, are each of the annual value of about £40, and tenable in the first instance for one year. They are not tenable along with any other Scholarship or Bursary without the express approval of the Senatus. Candidates must be eighteen years of age at the date of application (1st October), and they must be still eligible to compete for the Civil Service in the following August. The Scholarships will be awarded without examination, on the basis of work already done at Edinburgh University. Candidates will be expected to show evidence of some such distinctions as the following:—Second Class Honours (at least) in some department of the Faculty of Arts; a degree in Science; or Class Certificates of Merit (First Class) in three or four different subjects. The holders will be required (1) to declare their intention of competing for the Civil Service; (2) to submit from time to time evidence of industry and progress in the subjects which they intend to offer in the Civil Service Competition. The holder of a Scholarship may offer himself again as a Candidate. He will not be debarred from entering his name for the Home as well as the India Service; and in the event of his being high enough in the list to have the option of a Home appointment, he will be free so to choose.

1901. *D. G. Mitchell, B.Sc.*, for a second year.

*William Pryde, M.A.*

### XLI.—GEORGE HERIOT'S TRAVELLING SCHOLARSHIP FOR TEACHERS OF MODERN LANGUAGES (MEN OR WOMEN).

This Scholarship of £100, tenable for one year, will not be offered for Competition in 1903. It will be open to a Graduate in Arts of this University, of not more than four years' standing at the date of election as Scholar, who has passed the Degree Examination (Honours or Ordinary) in one of the Modern Languages either before or after graduation, has attended an Honours Class in the Language for which the Scholarship is awarded, has obtained the Schoolmaster's Diploma in the University of Edinburgh, and who is, or intends to become, a Teacher of Modern Languages. The Scholarship shall be awarded to the Candidate who stands highest in French. For further particulars

apply to David Lewis, Esq., Treasurer, George Heriot's Trust, 20 York Place, Edinburgh, from whom schedules of application may be obtained, which must be lodged with him not later than 15th March.

#### IV.—FELLOWSHIPS.

*See note under Bursaries, p. 169.*

##### I.—GUTHRIE FELLOWSHIP IN CLASSICAL LITERATURE.

This fellowship, founded in 1866 by James Guthrie, Esq., London, is of the annual value of about £85, 15s., and is tenable for four years. By the terms of the Deed of Foundation (given at p. 210 of the CALENDAR for 1866-67) it is for proficiency in Classical Literature, and is open to Graduates in Arts of the University who have taken their Degree since the last competition. Students who have passed all their examinations for a Degree since the last competition, but have deferred graduating, are also eligible. It cannot be held along with any other Fellowship or Scholarship in a Scottish University. The next Competition may take place in April 1903.

1899. *A. B. Keith, M.A.*

##### II.—THE HAMILTON PHILOSOPHICAL FELLOWSHIP.

This Fellowship, founded in 1866 by the Subscribers to the fund for a Memorial to the late Professor Sir William Hamilton, and by the Association for the better endowment of the University, is of the annual value of about £84, 15s., and is tenable for three years. By the Deed of Foundation (given at p. 213 of CALENDAR for 1866-67), the Fellowship is open to all Graduates in Arts of the University of Edinburgh of not more than three years' standing at the time of the competition. It cannot be held along with any other Scholarship or Fellowship in any Scottish University. The subjects of examination are Logic, Metaphysics, Moral Philosophy, and the History of Philosophy. The next Competition may take place in April 1903.

1900. *D. H. Macgregor, M.A.*

##### III.—SHAW FELLOWSHIP IN MENTAL PHILOSOPHY.

This Fellowship, founded in 1867 by Contributors to a Memorial to Sir James Shaw, Bart., a native of Ayrshire, afterwards Lord Mayor of, and M.P. for, London, and by the Association for the better

endowment of the University, for the encouragement of the study of Logic, Psychology, Metaphysics, Moral Philosophy, and the History of Philosophy, is awarded after competitive examination on these subjects. It is open to Graduates in Arts of any of the four Scottish Universities, of not more than five years' standing at the time of the competition, is of the annual value of about £139, 11s. 2d., and is tenable for five years. It cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University, and it is not open to the competition of any person who already holds a Fellowship in any English or Irish University, though the holder of the Shaw Fellowship will not be precluded from afterwards obtaining an English or Irish Fellowship. The holder is required during the fourth or fifth year of his tenure of the Fellowship to deliver in this University a Course of four Lectures on any of the subjects for the encouragement of the study of which the Fellowship was founded. The next Competition for the Fellowship may take place in December 1904 at the beginning of the Christmas holidays. (Deed of Foundation, p. 237 of CALENDAR for 1868-69.)

1899. *J. B. Baillie, M.A.* (Edin.).

*Prox. access.*, *A. M. Mackay, M.A.* (Aber.).

#### IV.-VIII.—GEORGE HERIOT RESEARCH FELLOWSHIPS.

Applications for Fellowships or for renewal of Fellowships should be made annually, not later than 1st June. For further particulars apply to the Governors of George Heriot's Trust, 20 York Place, Edinburgh.

1902. *John M<sup>c</sup>Farlane, M.A.*

#### ENDOWMENTS FOR RESEARCH.

##### I.—WILLIAM DICKSON TRAVELLING FUND.

This Fund (the interest of which amounts to about £85 per annum) has been established for the purpose of assisting Graduates (men or women) of any Faculty, of not more than Three Years' standing, to travel, for a shorter or longer period, for purposes of study or research. Grants from the Fund may be made to holders of Scholarships, Bursaries, &c. Applicants are required to state—“(1) The purpose for which the Applicants desire to get a Grant for travelling; (2) the total amount of expenditure thought necessary; (3) the other means they have towards meeting this expenditure; and (4) the amount of the Grant required from the Fund.” The award of a grant to be based on—“(1) The importance of the work proposed to be undertaken; (2) the sufficiency of the means proposed to be applied to the work; (3) the capability of the Applicants for the work they respectively propose to undertake.” “Holders of Grants in all cases to satisfy the Senatus by periodical reports that they are carrying out satisfactorily the work or investigation

undertaken ; and to present a final report, or to deliver a course of public University Lectures on their work when completed." Applications, on Special forms to be obtained at the Matriculation Office, must be lodged with the *Secretary of Senatus* on or before 15th March annually. For Deed of Endowment, *see* p. 514 of CALENDAR, 1889-90.

## II.—EARL OF MORAY ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

1. The available income (which amounts to about £600 per annum) is, in the first place, applied to the payment of the actual expenses of the prosecution of Original Research, present or contemplated, intended and likely to increase existing human knowledge, in any of its departments.

In such expenses would be included apparatus, special accommodation, specimens, chemical substances, books, journals, pamphlets, reproductions of manuscripts, &c., and actual maintenance and travelling expenses, in so far as they are shown to be necessary for the purposes of research, provided that it shall be permissible to furnish out of the income such specific additions to the Library as may be deemed necessary to stimulate and aid research.

All apparatus, specimens, books, journals, pamphlets, &c., and all unused chemical substances shall, at the termination of the research, be returned, or otherwise accounted for to the University.

2. Any surplus income after meeting the claims defined in 1, above, may be expended in (a) the printing and publishing of noteworthy results, including illustrations for papers containing such results ; and (b) the payment, after careful consideration of all the circumstances, of such grants of money as may be necessary to enable applicants to enter upon or carry on the work of research, or to encourage the prosecution of research.

3. All graduates and other members of the University, "or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research," are entitled to apply for assistance.

4. In so far as the subject of the research admits, the investigation shall be conducted in the buildings of the University.

5. Applications should be addressed to the Secretary of Senatus. See Regulations in CALENDAR for 1897-98, page 428.

## THE SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is in the patronage of the Trustees of the British Museum, is of the annual value of about £144, and is open to Graduates in any of the Faculties in this University who have obtained their Degrees after examination. For further particulars *see* under Faculty of Science, page 297.

FELLOWSHIPS, SCHOLARSHIPS, UNIVERSITY PRIZES,  
AND BURSARIES, OPEN DURING THE ACADEMIC YEAR  
1902-1903.

Candidates for the Fellowships and Scholarships open in Spring must give their names and addresses to the Clerk of Senatus, University, Edinburgh, *on or before* 15th March annually.<sup>1</sup> The Examinations will take place in the *Examination Hall*, University, at the same time as the Examinations in the corresponding subjects for Graduation in Arts with Honours, unless otherwise stated.

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### Fellowships.<sup>2</sup>

1. *Guthrie Fellowship in Classical Literature*, No. I., page 198.
2. *Hamilton Fellowship in Mental Philosophy*, No. II., page 198.

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### Scholarships.<sup>2</sup>

1. *John Edward Baxter Philosophical Scholarship*, No. V., page 187.
2. *Sir David Baxter Philosophical Scholarship*, No. IV., page 186.
3. *Drummond Mathematical Scholarship*, No. VIII., page 187.
- Vans Dunlop Scholarships*—See General Regulations, page 191.
4. *Vans Dunlop Scholarship in Classical Learning*—(Latin and Greek), No. XXIV., page 192. Examination on 1st October 1902 and following days, from 9 to 12 and 2 to 5. Names to be entered on or before 18th September.<sup>2</sup>

The following are the subjects of Examination :—

*Latin*.—1. Composition ; 2. Translation ; 3. General questions on Language, Literature and History.

*Greek*.—1. Composition ; 2. Translation ; 3. General questions on Language, Literature and History.

5. *Lapsed Vans Dunlop Scholarship in Classical Learning for one year*, No. XXIV., p. 192. Subjects as above.

6. *Vans Dunlop Scholarship in English Literature and Poetry*,

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<sup>1</sup> The Senatus reserve power to relax this Regulation in cases where they are satisfied that very special cause has been shown.

<sup>2</sup> For further information, and for information regarding other Fellowships, Scholarships, Bursaries, and Prizes, see page 169, where full information regarding the conditions and values, &c., are given. The values of the Fellowships, Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise and fall of the rate of interest, &c.



No. XXIII., page 192. Examination on Friday, 30th March 1903, and following days, from 9 to 12 and 2 to 5.

The examination (which will be combined as far as possible with that for Honours) will include, besides the Class Lectures, (a) Independent Knowledge of the History of English Literature, and (b) of the following works:—

Chaucer's *Prologue to the Canterbury Tales*; *Knights' Tale*; *Troilus and Cressida*; Langland's *Piers the Plowman*, Parts i.-iv.; Malory's *Morte d' Arthur*; Dunbar's Poems; Spenser's *Shepherd's Calendar* and *Faery Queene* (Books iii. and iv.); Marlowe's *Edward II.*; Shakespeare's *Tempest*, *Love's Labour's Lost*, *Winters Tale*, *Romeo and Juliet*, *Othello*, *Cymbeline* and *Sonnets*; Jonson's *Every man in his Humour*; Bacon's *Essays*; Milton's *Paradise Lost*, i.-iii., *Sonnets*, and *Areopagitica*; Browne's *Urn-Burial*; Cowley's *Pindarique Odes*; Dryden's *Essay of Dramatic Poesy*, the *Defence of the Essay*, *Conquest of Granada*, and *Absalom and Achitophel*; Pope's *Essay on Criticism*, *Satires*, and *Epistles*; Swift's *Tale of a Tub*; Johnson's *Lives of Cowley*, *Dryden*, *Pope*, and *Swift*; Gray's Poems; Cowper's *Task*; Burns's Poems; Scott's Poems; Wordsworth's *Excursion*, Books i. and ii., *Prefaces*, *The Lyrical Ballads*; Byron's *Childe Harold*; Shelley's *Adonais*; Keats's *Hyperion*, *Endymion*, *Eve of St Agnes*; Tennyson's Poems before 1859; Browning's *Dramatis Personæ*.

7. *Lapsed Vans Dunlop Scholarship in Logic and Metaphysics*, No. XXVI., page 193, for one year. The examination will test knowledge of Philosophy, especially in the Departments of Logic, Psychology, and Metaphysics, including a special knowledge of the following books:—Sigwart's *Logic*, Vol. I.; Ward's Article on *Psychology*; James's *Principles of Psychology*; Kant's *Critique of Pure Reason* (to end of Analytic); Aristotle's *Nicom. Ethics*, Books i.-iv.; Kant's *Fundamental Principles of the Metaphysic of Morals*; Sidgwick's *Methods of Ethics*. Examination takes place on 2nd October 1902, and following days, at 9 and 2 o'clock each day. Names to be entered on or before 18th September.<sup>1</sup>

8. *Macpherson Scholarship*, No. XXXVII., page 196.

The subjects of Examination are: (1) *Tochmarc Etáine* and *Serglige Conculaind* (Windisch's *Irische Texte*). (2) *Modern Gaelic*: Duncan MacIntyre's Poems; Ossian's *Fingal*, Books I.-III.; and Keating's *Three Shafts of Death*, Books I., II., and III. (Atkinson's Edition). (3) Translations into English from Old and Modern Gaelic Authors. (4) Translation from English into Gaelic prose (Scottish or Irish). (5) A general knowledge of the History of Gaelic Literature, with more detailed knowledge of the Literature of the Scottish Highlands from A.D. 1560 to 1860. The Scholarship is awarded annually in April. Date to be afterwards announced. Names to be entered on or before 15th March.

<sup>1</sup> See footnote 2, p. 201.



9. *The George Scott Travelling Scholarship*, No. XXXVI., page 195. In 1903 the first preference will be given to a Candidate in History.

10. *Neil Arnott Scholarship for Experimental Physics*, No. XIX., page 190.

11-13. *Three Ferguson Scholarships*, No. XX., page 190. Apply at the Office of the Ferguson Bequest Fund, 94 Bath Street, Glasgow, before 1st September.

14-16. *Two Ritchie Scholarships for Candidates for the Civil Service of India*, No. XXXIX., page 197.

## Funds for Special Study or Research.

1. *The William Dickson Travelling Fund*, No. I., page 199.

2. *The Earl of Moray Bequest for the Promotion of Original Research*, No. II., page 200.

## Prizes.<sup>1</sup>

1. *The Lord Rector's Prize*, of twenty-five guineas, for the best Essay on "The recent rise, and future prospects of the Japanese Empire." The Prize is open to Matriculated Students of the University at 1st November 1902, and to Graduates of not more than two years' standing. Essays to be lodged with the Secretary of Senatus on or before 1st November, each Essay distinguished by a motto, and accompanied by a sealed envelope containing the name, address, and University standing of the Candidate.

2. *Scott and Dunbar Prize*, No. V., page 184.

3. *Bruce of Grangehill and Falkland's Prize*, No. III., page 184.

4. *The Elizabeth Hamilton Prize* of £5, No. X., p. 185, is offered to the best Woman Student in the Ordinary Class of Logic and Psychology who desires to study for Honours, provided that her standing be not below that of the First Class Certificate.

5. *Neil Arnott Prize*, No. I., page 442.

6. *Cousin Prize in Fine Art*, No. VI., page 184.

7, 8, 9. *The Trustees of Gray's Prize Essay Fund* offer three Prizes of £15, £10, and £5 for the first, second, and third best Essays on a subject to be announced in a notice on the boards at the entrance to the University in March. The Prizes are open annually to Matriculated Students of not more than three years' standing at the commencement of the following Winter Session. Essays to be lodged with the Secretary to the Trustees not later than 1st September. Rev. John Blackwood Munro, Duns, Secretary to the Trustees.

<sup>1</sup> See footnote 2, p. 201.

10, 11. *Two Newton Bursaries or Prizes*, No. LXIII., page 180.

12. *The Kelland Memorial Prize*, of about £4, 12s., will be awarded by Examination in October. The paper will be on the Higher Geometry for the John Welsh Bursaries (set on Saturday, 4th October, at 9 A.M.), with such additional questions as may be deemed necessary. Students who made a complete attendance on the Junior Mathematics Class for the first time in the previous Session (1901-1902) will alone be eligible to compete for the prize in October next. Names to be given in not later than 18th September.

13. *The Gladstone Memorial Prize*, No. VIII., page 185. Applications, with the necessary certificates, to be lodged with the Clerk of Senatus not later than 30th March.

14. *The Blackie Celtic Prize*, No. IX., page 185. The Examination for the first prize of £50 will begin on 28th October 1902 at 11 o'clock. Names to be entered at the Matriculation Office on or before 15th October.

15, 16. *The University Endowment Association* offer a Prize of £5 in the ordinary French Class, and a similar Prize in the ordinary German Class.

## Bursaries.<sup>1</sup>

FOR STUDENTS ENTERING THEIR FIRST YEAR.

(*For Time-Table of Examinations, see pages 132-134.*)

Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after three years, they shall only retain their Bursaries during a fourth year if they shall engage in study approved by the Senatus in subjects included in the Curriculum for Degrees in Arts or in Pure Science. Bursars in Arts, subject to the provision as to the fourth year of tenure, shall attend in each year at least two classes qualifying for Graduation in Arts, and shall duly perform the work of these classes: Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for Graduation; and (2) that it shall be in the power of the Senatus, with approval of the University Court, to permit such Bursars to attend classes qualifying for Graduation in Pure Science in place of classes qualifying for Graduation in Arts. [See Ordinance No. 57.]

The Bursaries are awarded on the results of the University Bursary Examinations unless otherwise stated, and are tenable at the University of Edinburgh only. The Senatus reserve the power, under Section VIII. of Ordinance No. 57, to award not more than two First Year

<sup>1</sup> See footnote 2, p. 201.

Bursaries in Arts in respect of exceptional distinction in any one branch of study.

For Bursary and other purposes, where the phrase "First-year's Student in Arts or Pure Science" is not by Deed of Foundation or otherwise defined, it shall mean "A Student in Arts or Pure Science who has not attended any class qualifying for Graduation in the said Faculties in any Scottish University."

The Subjects of Examination for the first year Bursaries, Nos. 1 to 22 inclusively in the following list, are on the *Higher Standard* and are the subjects prescribed for the Preliminary Examination, viz. :—English (full marks 100), Latin (100), Greek (100), Mathematics (100), French (50), German (50), Italian (50), and Dynamics (50), with additional papers in English, Latin, Greek, Mathematics, French, and German. Candidates may select not more than five subjects; provided always that no Candidate will be credited with marks in any subject in which he has not obtained twenty-five per cent. of the total marks assigned to that subject. Those who select Latin, Greek, or Mathematics must for the Bursary Competition take the papers on these subjects on the Higher Standard. The Examination Papers are indicated in the Time-Table of Examinations by the figure 1.

Candidates for *Preferential or Restricted* Bursaries [Nos. 23 to 32 inclusively] which are not awarded by open competition must present themselves for the Preliminary Examination in Arts prescribed by the Regulations for Degrees in Arts, Section III., and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts (or its equivalent). But it is in the power of the Senatus, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar. When there are more than one eligible Candidate for a restricted or preferential Bursary [Nos. 23 to 32 inclusively], the Subjects of Examination are :—English (as for Arts and Science Preliminary), Lower Latin, Lower Greek, and Lower Mathematics. Candidates for the MacKinnon and Ardvorlich Bursaries will in addition get Translation of an easy passage from Gaelic to English, Translation of Sentences from English to Gaelic, and Elementary Questions in Gaelic Grammar. The papers are indicated in the Time-Table of Examinations by the figure 3.

Candidates for Bursaries Nos. 1 to 22 inclusively, and for Second and Third Year Bursaries, may on and after 9th September obtain schedules at the Matriculation Office, University (Old) Buildings, which must be completed and returned to the Clerk of Senatus *on or before* 18th

September. The Senatus may relax this Regulation in cases where very special cause has been shown.

*Town Council Bursaries.*—Candidates for Bursaries in the gift of the Town Council, a number of which are vacant, are referred to the "*City Clerk, Council Chambers, Edinburgh,*" to whom early application should be made. The Examination is the same as for the University Open Bursaries.

County Clubs, and others who prefer this examination, may, by arranging with the University Court, avail themselves of the University Examinations by giving written intimation of the names of their Candidates at the Matriculation Office not later than 18th September. Those who desire to have their Bursaries inserted in the CALENDAR, under the head of Bursaries open during the year, are requested to give intimation to the Editor of the CALENDAR before 1st January.

*County Club and Private Bursaries.*—Candidates for Bursaries instituted by various County Clubs are referred to the respective Secretaries of those Clubs. Information as to Private Bursaries may be obtained from the Patrons or from their Agents.

Candidates for Bursaries, unless also Candidates for the Preliminary Examination, pay no fee.

*The names of the successful Candidates, and of others distinguished in the ordinary Bursary competition, will be published, in the order of merit, in the University Calendar, along with the names of the schools from which they come, provided that they have matriculated and enrolled in the necessary classes for 1902-1903.*

# I. FIRST YEAR BURSARIES OPEN IN SEPTEMBER-OCTOBER 1902 THE EXAMINATION FOR WHICH IS ON THE HIGHER STANDARD.

1. *One John Welsh Classical Bursary*, of the annual value of £20, tenable for four years. Subjects of examination—Latin, Greek, English.

2. *One John Welsh Mathematical Bursary*, of the annual value of £20, tenable for four years. Subjects of examination—Mathematics, especially pure Geometry. (Candidates are recommended to read Macdonald's *Higher Geometry*, Wilson's *Solid Geometry and Conic Sections*, and Casey's *Sequel to Euclid*, as partly indicating the scope of the examination in Geometry. What will be looked for is, not so much exhaustive knowledge of all the more intricate theorems, as a thorough knowledge of such as are more elementary and fundamental in their character, and ability to apply these in fairly straightforward exercises.)

3. *Patrick Bursary*, of about £40 a-year, tenable for four years, for those who have completed their School Education at Ayrshire schools or academies where a course of Classical Study is pursued. The rectors or

head teachers of each of said schools or academies may grant a certificate or letter to any number, not exceeding four, of the best scholars who have completed their course of education at such school or academy, and are in a position to enable them to apply for admission to the University; and those holding such letters or certificates are entitled to present themselves for examination as candidates for the Bursaries. Failing qualified candidates, the Senatus may award by open competition.

4. *Cowan Bursary*, £30 a-year for two years, and £20 for third year. Confined to students of Ayr Academy. Candidates' names must appear in Distinguished or Honours List, or Bursary will not be awarded.

5. *Edinburgh Ayrshire Club Bursary*, of £30 a-year, tenable for two years. Restricted to natives of Ayrshire (men and women). For particulars apply to Andrew White, Esq., W.S., 23 Castle Street, Edinburgh, before 15th September.

6, 7. *Two Sibbald Bursaries*, each of the annual value of £30, tenable for three years. Apply to Messrs Mackenzie, Innes & Logan, W.S., 23 Queen Street, Edinburgh, before 15th September.

8. *Thomson Bursary*, £25 a-year, tenable for four years. The Bursary is not tenable with any other Bursary or Scholarship. Apply to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, before 15th September.

9, 10. *Two Mann Bursaries*, each of about £28 a-year, tenable for three years. Candidates must be sons of residents in the town of Nairn, *i.e.*, one or other of their parents must have resided within the municipal boundaries for at least twelve months at some period prior to the competition. Should there be no qualified Candidates of the first year for these Bursaries, a notice will be posted at the College gate soon after the Bursary Competition. Other Preferential Candidates must then lodge their claims within one week after the notice appears on the Board.

11, 12. *Two Jardine of Thorlieshope Bursaries*, each of the annual value of £35, tenable for four years. Open only to natives of the rural districts of Roxburghshire and Dumfriesshire (villages and towns with a population of 2000 and upwards being excluded) who have attended the Public or Board Schools in said Counties. The Bursars are required to attend the classes necessary for the Degree in Arts, and to take the Degree at the end of the course. In the event of there being no qualified First Year Student, the Bursaries may be thrown open to competition for one year only to second, third, or fourth year Students in succession.

13. *The Masterton Memorial Bursary*, of £30 a-year, tenable for three years, for the benefit of sons and daughters of ministers and missionaries of the United Free Church. Candidates may take the

Bursary Examination in five, but not more than five subjects, one of which must be either French or German. The Bursary will not be awarded to any Candidate who has not passed the Preliminary Examination (including either Latin or Greek on the Higher Standard, and either French or German) with a view to Graduation. For further information apply to Mr J. Forbes Moncrieff, C.A., 22 Hill Street, Edinburgh, before 1st September.

14, 15. *Two Grant Bursaries*, each of the annual value of £45, and tenable for four years. The holders may attend classes in the Faculties of Arts, Science, Divinity, Law, or Medicine. Apply to Messrs Mackenzie, Innes & Logan, W.S., 23 Queen Street, Edinburgh, the agents for the Trustees, before 15th September.

16, 17. *Two Grierson Bursaries*, of £20 each, if not awarded to Preferential Candidates. (See Nos. 25, 26.)

18. *Fotheringham and Forrest Bursary*, of about £19, if not awarded to a Preferential Candidate. (See No. 28.)

19. *University Endowment Association Bursary*, of about £12, 13s.4d, tenable for three years. It cannot be held with any other Bursary in any Scottish University.

20. *Jamieson Bursary*, of about £20 a-year, tenable for four years, open to sons of schoolmasters, farmers, mechanics, and labourers, and other persons born and residing within any of the parishes of Crawford-john, Crawford, Lamington and Wandell, Wiston and Robertson, Culter and Biggar. The Bursar may attend classes in any of the Faculties. Apply to Messrs Maconochie, Duncan & Hare, W.S., 10 Hill Street, Edinburgh, before 15th September.

21. *M'Diarmid Bursary*, of £10 a-year tenable, for three years, restricted to natives of the County of Dumfries and Stewartry of Kirkcudbright. Apply to Mr H. Sharpe Gordon, Dumfries.

22. *Maclaurin Bursary* (restricted to Candidates of the name of Maclaurin), of about £71 a-year, and tenable for four years in any of the Faculties. Apply to the Town Council of Edinburgh for information regarding this, and the other Bursaries in their patronage.

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PREFERENTIAL OR RESTRICTED BURSARIES the examination for which (except in English) is on the lower standard.

23. *Orkney and Zetland Bursary*, of the value of about £40 per annum, tenable for three years, is open for competition to First Year Students (male or female), natives, or children of parents one or both of whom have been born in or connected for a long period of years with the Islands of Orkney and Zetland. The Bursar must attend the classes in the Curriculum with a view to a Degree in Arts.



Apply to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, before 15th September.

24. *Mackinnon Bursary*, of about £20 a-year (under deduction of expenses), tenable for three years. Candidates must be natives of the Counties of Argyll, Bute, Inverness, Ross, or Sutherland, and must be examined in Gaelic.

25, 26. *Two Grierson Bursaries*, each of £20 a-year, tenable for four years—restricted in the first place to natives of the parishes of Crawford and Leadhills. If there be no Preferential Candidates, the examination will be as for Open Bursaries.

27. *The Penman Bursary*, of £14, 15s. a-year, tenable for four years. Bursar must attend the classes in the Arts curriculum. Patrons—Society for Benefit of Sons of the Clergy.

28. *Fotheringham and Forrest Bursary*, of the annual value of about £19, tenable for four years—restricted in the first place to relatives of the Founder, in the second place to such as are of the name of Fotheringham, and in the third place to such as are of the name of Forrest; and failing all these, to be awarded as an Open Bursary.

29. *Ardvorlich Bursary*, of the annual value of £16, tenable for four years. Open to natives of Comrie, Balquhider, Callander, or Killin, failing whom, to natives of Perthshire, and failing such, to the best qualified Candidate who requires aid to enable him to obtain a University education. The holder must attend Arts or Science classes.

30. *R. Johnstone Bursary*, £15, 15s., tenable for four years. Bursars must pass Preliminary Examination or its equivalent, and must attend the classes and graduate as M.A. Apply to Hope, Todd, & Kirk, W.S., 119 Princes Street, agents of J. J. Hope Johnstone, Esq., of Annandale.

31. *Pringle and Wardrop Bursary*, of £17, 13s. 10d. a-year, tenable for four years. Bursar must pass Preliminary Examination or its equivalent, and attend classes in curriculum for M.A. Apply to J. C. Wardrop, Esq., W.S., 5 Lombard Street, London, E.C.

32. *Argyllshire, &c., Association Bursary*.—Candidates (male or female) must be natives of Argyllshire, Bute, or Western Islands. The holder must pass the Preliminary Examination and attend the classes necessary for a Degree in Arts. Application to be made to George A. Munro, Esq., S.S.C., 6 Rutland Square, Edinburgh.

33. *Renton Bursary* (not restricted to Students of the First Year), of about £20, for one year. The holder must attend one or more of the classes of Natural Philosophy, Mathematics, Chemistry, or Political Economy. Pecuniary circumstances will be taken into consideration. It cannot be held by anyone under the age of sixteen or above twenty-



one, or with another Bursary of the annual value of £30 or upwards. The examination is in English and Mathematics, as for the First Year Open Bursaries. See Time-Table, pages 128, 129. Names of Candidates to be entered on or before 18th September.

34, 35. *Two Newton Bursaries or Prizes*, of about £22, 14s. 2d. each, tenable for two years, are awarded annually at the end of the Winter Session—one for proficiency in the Senior (Second) Class of Mathematics, and one in the Junior Class of Natural Philosophy.

36. *Donald Fraser Bursary*, of £51, for high merit in the class of Natural Philosophy, combined with proficiency in Laboratory Work, is awarded annually at the end of the Winter Session.

#### GEORGE HERIOT BURSARIES.

37-39. *Three George Heriot Bursaries for Men* will be offered for Competition to Students matriculating at the University for the first time, after having passed the Preliminary Examination for a Curriculum in Arts or Science. Each Bursary is of the annual value of £30 a year, and may be tenable for three years. Subjects of examination:—(1) Latin; (2) Mathematics; (3) English; (4) Greek; (5) French; (6) German; (7) Italian; and (8) Dynamics, with additional papers in each subject. The Bursaries are divided into two classes: A. (Two Bursaries)—In this class English, Latin, Greek and Mathematics shall each have assigned to them double the marks assigned to any other subject; and B. (One Bursary)—In this class English, Mathematics, French, German and Italian have double the marks assigned to any other subject. Candidates in either class may select not more than five subjects of examination. The papers of all candidates are valued in accordance with the marks in both classes. The examination papers are indicated by the figure 1 in the Time-Table of Examinations. Schedules of applications for these Bursaries may be had from the *Governors of George Heriot's Trust*, at the Office of the Treasurer, 20 York Place, Edinburgh, on and after 15th August, and must be returned to him not later than 15th September. Candidates are required to state in their schedules of application the subjects in which they offer themselves for examination.

40-42. *Three Heriot High School Bursaries*, each of £30 a-year, open to pupils of the High School, Edinburgh, and tenable for three years. Regulations as in last paragraph.

43-45. *Three George Heriot Bursaries for Women*, one in Class A., and two in Class B., will be offered for competition to Students matriculating at the University for the first time, after having passed the Preliminary Examination for a Curriculum in Arts or Science. Each Bursary is of the value of £30 a-year, and may be tenable for three years. The subjects and conditions of the examinations are the same as for the Bursaries for men. Application to be made in the manner

referred to in the previous paragraph. The examination papers are indicated by the figure 1 in the Time-Table.

46. *One George Heriot Bursary for Women Graduates*, of £30, tenable for one year, at St George's Training College, Edinburgh. The subjects of examination are:—English (full marks 100), Latin (100), Greek (100), Mathematics (100), French (100), German (100). Candidates may select not more than three subjects; provided always that no Candidate will be credited with marks in any subject in which she has not obtained 25 per cent. of the total marks assigned to that subject. The papers to be taken are those set for first year open bursaries. The Examination Papers are indicated in the Time-Table of Examinations by the figure 1. Women-students who hold the Cambridge University Honour or Ordinary Certificates, which are equivalent to the degrees conferred on men-students, and women-students who hold the corresponding equivalents to degrees from the University of Oxford will rank for purposes of Competition as Graduates. Applications for Schedules for the Bursary may be made to the Governors of George Heriot's Trust at the Office of the Treasurer, 20 York Place, Edinburgh, on and after 15th August, and must be returned to him not later than 15th September.

47-49. *Three Simson Bursaries*, of the annual value of £25, tenable for three years, for Students who, having passed the Preliminary Examination, are entering on the first year of the course in Arts and are studying for the Ministry of the Church of Scotland. See definition of a First-year's Student, at page 205. *One Special Bursary* of £25 for one year, open to Students for the Ministry of the Church of Scotland who are attending Classes at the University with a view to passing the Preliminary Examination. The Examination for these *four* Bursaries will be held in the end of October. For further details and subjects of Examination apply to the Rev. G. T. Jamieson, Clerk to the Presbytery of Edinburgh, The Manse, Portobello. Names to be given to him on or before 1st October.

50. *A Macdougall Bursary*, of £30 per annum, tenable for three years. Candidates must have been born within the County or City of Perth. Students attending the Gaelic Class preferred. It cannot be held with any other Bursary or appointment yielding together upwards of £50 per annum. Apply to W. Cochrane Young, Esq., Solicitor, Perth.

51-53. *Bursaries offered by The Edinburgh Association for the University Education of Women*—

(1) *The Victoria Jubilee Bursary*, founded by His Excellency Dr Gunning, of about £30 for one year, to be held at Masson Hall. Open to a third year Student desiring to graduate in Arts or Science with Honours.

(2) *The Earl of Zetland's Bursary*, about £20 for one year.

(3) *The Houldsworth Bursary*, of about £20 for two years. Open to Candidates intending to become Teachers.

These Bursaries are offered to women Candidates. The Subjects of Examination for 2 and 3 are the same as for the University First Year Open Bursaries, see page 205. They cannot be held along with any other Bursary or Scholarship whatsoever, and will be awarded to such Candidates as in the opinion of the Executive Committee best fulfil the conditions of the several trusts.

Apply by letter to the Hon. Secretary of the Association, Miss Louisa Stevenson, 13 Randolph Crescent, Edinburgh, for No. 1 before 15th February and for Nos. 2 and 3 before 15th September 1902.

54. *The Buchanan Society have for some years given Four Bursaries annually* in Arts, Science, and Medicine, open to suitable young men of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk, and tenable at any Scottish University. The Examination generally takes place in September, and the papers set are of equal value for full marks in all subjects. The four competitors who have the highest marks get the Bursaries, provided a satisfactory standard of proficiency is attained. They may therefore be given all in Arts, or Science, or Medicine. The Arts Bursaries are of the annual value of £20 each, tenable for three years. The Science Bursaries are of the annual value of £30 each, tenable for four years; and the Medical Bursaries are of the annual value of £35 each, and tenable for five years. These Bursaries have, however, been suspended meantime as applicants are not coming forward.

For rules and further particulars apply to P. G. KEYDEN, 186 West George Street, Glasgow, *Secretary and Interim Treasurer.*

55. *Edinburgh Angus Club Bursary.*—Of £25 per annum, open to natives of Forfarshire entering the Faculty of Arts. Next Competition in Autumn 1902. Apply to George F. Mathers, W.S., 47 Frederick Street, Edinburgh.

56. *The M'Glashan Bursary, offered by the Committee of St George's Classes.*—Bursary of £10 for one year, offered to the woman student who passes highest among members of the St George's Oral or Correspondence Classes completing the Arts Preliminary Examination in October with a view to Graduation. For further information apply to the Secretary, St George's Classes, 5 Melville Street, Edinburgh.

#### FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.<sup>1</sup>

Candidates may on and after 9th September obtain schedules at the Martication Office, University (Old) Buildings, which must be completed and returned to the Clerk of Senatus *on or before* 18th September.

*See Time-Table of Examinations, pages 127-129.*

1. *Tyndall Bruce Bursary*, £35 a year, for three years.
2. *One Stuart Bursary*, annual value £18, tenable for three years.

<sup>1</sup> See footnote 2, p. 201.

3. One or more Jardine of Thorlieshope Bursaries of £35 for one year, if not awarded to Candidates entering on the first Session. Preferential Candidates must enter for and undergo the Examination for Students entering on the Second Session. See Nos. 11 and 12, page 207.

The subjects of examination are Latin, Greek, and Mathematics.

The following subjects are prescribed for the examination in Latin and Greek:—*Latin*—Virgil, *Aen.*, iii.-iv.; Tacitus, *Histories*, ii.; Cicero, *Pro Archia*. *Greek*—Homer, *Odyssey*, v. and vi.; Aesch., *Chosph.*; Thucyd., Bk. ii. Latin and Greek prose composition, and translation from books not prescribed.

Names of Candidates to be entered on or before 18th September.<sup>1</sup>

5, 6. *Two Spence Bursaries*, each of the annual value of £30 for first year and £40 for second year of tenure, open to Students of either sex who, after passing the Preliminary Examination or examination accepted as equivalent thereto, have attended one Winter Session qualifying for graduation or its equivalent, and who intend to complete the course of study for the Degree of M.A. The Governors may award to any Bursar, if they shall be satisfied of his or her merit, a continuation Bursary of £50, tenable one year, on condition that the Bursar shall for that year attend such a Curriculum of study in any of the Faculties as the Governors may approve. The next examination will take place at St Andrews in September or October 1902. Apply to Mr Henry A. Pattullo, Solicitor, 1 Bank Street, Dundee, Factor to the Trust, for particulars. Schedules of application duly filled up, to be lodged on or before 1st September.

#### FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.<sup>1</sup>

Candidates may on and after 9th September obtain schedules at the Matriculation Office, University (Old) Buildings, which must be completed and returned to the Clerk of Senatus *on or before* 18th September.

*See Time-Table of Examinations, pages 127-129.*

1. *Horsliehill Scott Bursary*, of about £33, for two years (under deduction of expenses).

2. One or more Jardine of Thorlieshope Bursaries of £35 for one year, if not awarded to First or Second Session Candidates. Preferential Candidates must enter for and undergo the Examination for Students entering on their Third Session. See Nos. 11 and 12, page 207.

The subjects of examination are Classics, Mathematics, and Logic (with Psychology and History of Philosophy).

The following subjects are prescribed for the examination in Classics:—*Latin*—Virgil, *Aen.*, v.; Persius; Cicero, *In Verrem*, v.

<sup>1</sup> See footnote 2, p. 201.

*Greek*—Aesch. *Chosph.*; Thucyd., Bk. ii. Latin and Greek prose composition and translation from books not prescribed.

No special books prescribed for Mathematics, or for Logic with Psychology and History of Philosophy. Candidates should revise the lectures and text-books in these classes.

The attention of all Bursars in the Faculty of Arts is particularly called to the following regulation:—

“Bursars in the Faculty of Arts (to whose Bursaries special conditions are not attached) must annually attend at least two of the Classes necessary for the Degree of Master of Arts, and must present themselves at the Examinations necessary for that Degree.

“Each Fellow, Scholar or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation.”

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Arts*, after 14th November, and at the end of the Session. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the Session; and at the end of the Session they must present certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Mr Henry Cook, W.S., 61 North Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—*Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.*

G. CHRYSTAL, LL.D.,  
*Dean of the Faculty of Arts, and*  
*Professor of Mathematics.*

# Faculty of Science.

Dean—PROFESSOR GEIKIE, D.C.L., LL.D.

*Students who do not intend to graduate may attend any of the Classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Attendance on any Class with a view to Graduation in Pure Science will not qualify unless the whole Preliminary Examination has been previously passed. Those who intend to graduate in Engineering or in Agriculture must pass the Preliminary Examination before they present themselves for any part of the First Science Examination, but not necessarily before entering on the Curriculum. The Classes in the Faculty, except a few in which arrangements have not yet been made, are open to women.*

*The Class Fees are collected by the Factor. For the purpose of receiving fees he will attend at the University for a short period at the beginning of the Winter and Summer Sessions, and fees not then paid will be taken at his Office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for same drawn in favour of The Collector of Class Fees, Edinburgh University.*

*See as to payment of Class Fees by Carnegie Trust, page 157.*

## Programme of Classes.

### WINTER SESSION, 1902-1903.

*The Classes meet daily (Saturdays excepted), unless otherwise stated:—*

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Junior Mathematics...	14 Oct., 12 o'cl.	Prof. Chrystal	£3 3
Senior Mathematics <sup>2</sup> ..	14 Oct., 9 "		3 3
Mathematics (Intermediate Honours)	15 Oct., 11 "		3 3
Do. (Advanced Honours).....	15 Oct., 10 "		3 3
Zoology (Elementary)	14 Oct., 2 "	Prof. Ewart .....	4 4
Practical Zoology (Elementary)....	14 Oct., 11 "		2 2 <sup>3</sup>
Advanced Zoological Laboratory <sup>4</sup> ..	... ..		...

<sup>1</sup> Fees for second and subsequent attendances, see page 220.

<sup>2</sup> The first half up to Christmas qualifies as a First Half-Course, and the second half from Christmas to the end of the Session as a Second Half-Course. *Any* First Half-Course, along with *any* Second Half-Course, taken subsequently, qualifies as a full Course for Graduation.

<sup>3</sup> Besides charge of 10s. for Laboratory Expenses.

<sup>4</sup> For Fees, see footnote 2, page 222.



Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Morphology of Vertebrates (with Laboratory work)	15 Oct., 2 o'cl.	J. Beard, D.Sc...	$\begin{Bmatrix} \text{£} & \text{s.} \\ 3 & 3^2 \end{Bmatrix}$
Comparative Embryology.....	7 Jan., 1 ,,		$\begin{Bmatrix} 3 & 3^3 \end{Bmatrix}$
Botany (Advanced) ...	14 Oct., 11 ,,	Prof. B. Balfour {	$\begin{Bmatrix} 3 & 3^4 \\ 2 & 2^4 \end{Bmatrix}$
Prac. Bot. (Advanced)	15 Oct., 11 ,,		
Plant Physiology .....	14 Oct., 10 ,,	{ A. W. Borthwick, B.Sc...	$\begin{Bmatrix} 2 & 2^4 \end{Bmatrix}$
Natural Philosophy...	14 Oct., 11 ,,	Prof. MacGregor	$\begin{Bmatrix} 3 & 3 \end{Bmatrix}$
Do. (Intermediate Honours, <i>Mon., Wed., Fri.</i> ).....	15 Oct., 9 ,,	{ Prof. MacGregor and Dr Knott	$\begin{Bmatrix} 3 & 3 \\ 3 & 3 \end{Bmatrix}$
Do. (Adv. Hons. <i>Mon., Wed., Fr.</i> )	15 Oct., 12 ,,		
Applied Mathematics (Adv. Science, <i>Mon., Wed., Fri.</i> )	15 Oct., 10 ,,	Dr Knott.....	$\begin{Bmatrix} 3 & 3 \end{Bmatrix}$
Physical Laboratory <sup>8</sup>	15 Oct., 10 ,,	{ Prof. MacGregor and Dr Peddie	$\begin{Bmatrix} \dots \end{Bmatrix}$
Chemistry .....	14 Oct., 10 ,,	Prof. Crum Brown	$\begin{Bmatrix} 4 & 4 \end{Bmatrix}$
Practical Chemistry...	1 Dec., 11&2,,	Prof. Crum Brown	$\begin{Bmatrix} 3 & 3 \\ 2 & 2 \end{Bmatrix}$
Chemistry (Advanced Course) ..	6 Jan., 4 ,,	with Drs Dobbin, Marshall & Taylor	
Chemical Laboratories <sup>5</sup>	14 Oct., 9.30 ,,		
Astronomy ( <i>Mon., Tues. Wed. Thurs.</i> )	15 Oct., 4 ,,	Prof. Copeland..	$\begin{Bmatrix} 3 & 3 \end{Bmatrix}$
Anatomy .....	14 Oct., 1 ,,	{ Prof. Sir William Turner, K. C. B.	$\begin{Bmatrix} 4 & 4 \\ 3 & 3 \end{Bmatrix}$
Practical Anatomy....	1 Oct., <i>daily</i> .		
Regional Anatomy (Anatomical Demonstrations).....	15 Oct., 9 o'cl.	{ David Hepburn, M.D.. .....	$\begin{Bmatrix} 2 & 2^6 \end{Bmatrix}$
Physiology.....	14 Oct., 2 ,,		$\begin{Bmatrix} 4 & 4 \end{Bmatrix}$
Pract. Physiology:—			
Experimental.....	15 Oct.,	{ Prof. Schäfer, Dr Milroy and assistants .....	$\begin{Bmatrix} 2 & 2 \\ 1 & 1 \end{Bmatrix}$
Chemical.....	15 Oct.,		
Adv. Pract. Physiol. (Experi. & Chem.) <sup>7</sup>			$\begin{Bmatrix} 3 & 3 \end{Bmatrix}$

<sup>1</sup> Fees for second and subsequent attendances, see page 220.<sup>2</sup> Besides charge of 10s. for Laboratory Expenses.<sup>3</sup> Five Shillings University Entrance Fee for non-matriculated Students. Payment of the Entrance Fee does not entitle the student to a Class Certificate, nor confer any other University privilege.<sup>4</sup> Besides Garden Fee of Five Shillings.<sup>5</sup> For fees, &c., see footnote 1, page 222.<sup>6</sup> When taken along with Practical Anatomy, £1, 1s.<sup>7</sup> Dates to be arranged.<sup>8</sup> For fees, see footnote 1, page 221.



Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Geology & Mineralogy	14 Oct., 4 o'cl.	Prof. Geikie....	£ 5.
Prac. Class ( <i>Mon.</i> , } <i>Wed.</i> , & <i>Fri.</i> ) ... }	17 Oct., 2-4 ,,	{ Prof. Geikie and J. D. Falconer, M.A., D.Sc...	{ 4 4 3 3
Engineering, Junr., <sup>2</sup> } ( <i>Mon.</i> , <i>Wed.</i> , <i>Fri.</i> ) }	15 Oct., 9 ,,	{	{ 4 4 <sup>3</sup>
Engineering, Senr., <sup>2</sup> } ( <i>Tues.</i> , <i>Thur.</i> , <i>Sat.</i> ) }	15 Oct., 9 ,,	{ Prof. Hudson	{ 4 4 <sup>3</sup>
San. Eng. & Build. } Constr. (Pub. } Health) ( <i>Tues.</i> } <i>and Fri.</i> )..... }	17 Oct., 11 ,,	{ Beare .....	{ 2 2
Engineering Lab...	15 Oct., <i>daily</i> .	{	{ 6 6
Engineering, Draw- } ing .....	14 Oct. 10 to 4 }	{	{
Lectures, Sr., <i>Mon.</i> } Junior, <i>Thurs.</i> }	16 Oct. 12 ,, }	{ W. Hume Kerr, M.A., B.Sc.... }	{ 3 3
Public Health and } Sanitary Science }	6 Jan., 3 ,, }	{ Prof. Hunter	{ 4 4
Do. Laboratory <sup>4</sup> .... }	15 Oct., <i>daily</i> .	{ Stewart .....	{
Drawing in its re- } lation to Public } Health..... }	15 Oct., 11 ,, }	{ W. Hume Kerr, M.A., B.Sc.... }	{ 2 2
Agriculture and } Rural Economy.. }	14 Oct., 9 ,, }	{	{ 4 4
Garton Lectures on } Colonial Agricul- } ture ( <i>Mon.</i> , <i>Thur.</i> ) }	16 Oct., 12. 15 ,, }	{ Prof. Wallace .. }	{ 1 1 <sup>5 7</sup>
Economics as applied } to Agriculture ( <i>The } Polit. Econ. Class in } Arts till Christmas</i> ) }	14 Oct., 9 ,, }	{ Prof. Nicholson	{ 2 2
Agricul. Chemistry } Do. Advanced La- } boratory Class.. }	14 Oct., 3 ,, } 14 Oct., 12-4 ,, } ( <i>Tu.</i> & <i>Fri.</i> ) }	{ A. P. Aitken, D.Sc..... }	{ 3 3 4 4 <sup>6</sup>

<sup>1</sup> Fees for second and subsequent attendances, see page 220.

<sup>2</sup> Each Member of the Class has also to work for at least 4 hours a week in the Laboratory. Hours arranged at first meeting of Class. Fee for Winter Course, £6, 6s.

<sup>3</sup> Half-Course, £2, 2s.

<sup>4</sup> For fees, see footnote 3, page 222.

<sup>5</sup> Free to all present and past Students of the Agriculture Class.

<sup>6</sup> On payment of this fee, students who have already attended the Ordinary Class will be readmitted to that class.

<sup>7</sup> See footnote 3, page 216.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Forestry .....	14 Oct., 10 o'cl.	Col. Bailey, R. E.	£3 3 <sup>2</sup>
Agricultural Entomology (Twenty Lectures).....	6 Jan., 2 ,, {	W. Fream, LL.D., B.Sc. (Lond.)	{ 2 2 <sup>2 3</sup>

**SUMMER SESSION, 1903.**

*The Classes meet daily (Saturdays excepted), unless otherwise stated.*

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Senior Mathematics (First Graduation Half-Course) <sup>4</sup> .....	{ 1 May, 11 o'cl.	{ Chas. Tweedie, M.A., B.Sc.	{ £ 5. 2 2
Senior Mathematics (Second Graduation Half-Course) <sup>4</sup> .....	{ 1 May, 12 ,,	{	{ 2 2
Honours Mathematics (Graduation Half-Course).....	{ 1 May, 10 ,,	{ Chas. Tweedie, M.A., B.Sc.	{ 2 2
Physics ( <i>mainly for Students of Medicine</i> )	{ 1 May, 2 ,,	Prof. MacGregor	3 3
Physical Laboratory <sup>5</sup> ..	1 May, 10 ,,	{ Prof. MacGregor and Assistant }	{ ...
Applied Mathematics..	1 May, 9 ,,	C. G. Knott, D.Sc.	2 2
Wave Theory .....	1 May, 9 ,,	W. Peddie, D.Sc.	2 2
Advanced Experimental Physics.....	{ 1 May, 10 ,,	W. Peddie, D.Sc.	2 2
Chemistry (Organic)	1 May, 1 ,,	Prof. Crum Brown	2 2
Do. (Practical).....	1 May, 2 ,,	{ Prof. Crum Brown, with Drs Dobbin, Marshall and Taylor .....	{ 3 3
Chemical Laboratories <sup>6</sup>	1 May, 9.30 ,,	{	{ ...
Chemical Theory ( <i>Mon. &amp; Fri.</i> ) .....	{ 1 May, 10 ,,	{ Leonard Dobbin, Ph.D. ....	{ 1 1
Mineralogy and Crystallography .....	{ 1 May, 9 ,,	{ Hugh Marshall, D.Sc. ....	{ 2 2

<sup>1</sup> Fees for second and subsequent attendance, see page 220.

<sup>2</sup> See footnote 3, page 216.

<sup>3</sup> Free to all present and past Students of the Agricultural Class.

<sup>4</sup> For Regulations as to Half-Courses, see footnote 2, page 215.

<sup>5</sup> For fees, see footnote 1, p. 221.

<sup>6</sup> For Fees, &c., see footnote 1, page 222.

Classes.	Days of Opening and Hours of Attendance.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Astronomy (Advanced) (Tues. & Fri.).....	2 May, 11 o'cl.	Prof. Copeland....	£ 5. 2 2
Practical Anatomy.....	1 May, daily.	Prof. Sir W. Turner, K. C. B., and Demonstrators .....	2 2 2 2 <sup>2</sup>
Anthropology.....	6 May, 1 o'cl.	David Hepburn, M.D.....	...
Regional Anatomy (Anatomical Demonstrations).....	1 May, 9 daily.	Prof. Schäfer, Dr Milroy and assistants	2 2 2 2
Pract. Physiol. (Histol.)	1 May, several hours.	Prof. Geikie, ...	3 3 <sup>3</sup> ...
Geology (Mon., Wed., Fri.).....	1 May, o'cl.	J. D. Falconer, M.A., B.Sc..	2 2
Field Demonstrations on Saturdays.	... ..	Prof. Ewart....	4 4 2 2 <sup>4</sup>
Petrology (Mon., Wed., Fri.).....	1 May, 10-12 ,,	J. H. Ashworth, D.Sc.....	2 2 3 3 <sup>4</sup>
Zoology (Elementary). Do. (Elementary Practical).....	1 May, 12 ,, 1 May, ,,	Prof. Ewart....	4 4 2 2 <sup>4</sup>
Invertebrate Zoology .. Do. (with Lab. Work)	1 May, ,,	J. H. Ashworth, D.Sc.....	2 2 3 3 <sup>4</sup>
Natural History Laboratory.....	1 May, 2 ,,	Prof. Ewart....	6 6
Botany .....	1 May, 8 ,,	Prof. Bayley	4 4 <sup>5</sup> 2 2 <sup>5</sup>
Practical Botany.....	1 May, 9 ,,	Balfour.....	...
Field Demonstrations on Saturdays	... ..	A. W. Borthwick, B.Sc.	2 2 <sup>5</sup>
Plant Physiology .....	1 May, 2 ,,	Prof. Hudson	3 3
Engineering Field-Work (Surveying, Levelling, &c.) (3 days a-week, 9-4)....	1 May 9 ,,	Beare.....	3 3
Public Health and Sanitary Science.....	In Winter only.	Prof. Hunter	4 4
Do. Laboratory <sup>6</sup> .....	1 May daily.	Stewart.....	4 4

<sup>1</sup> Fees for second or subsequent attendances, see page 220.

<sup>2</sup> When taken with Practical Anatomy, £1, 1s.

<sup>3</sup> This Course qualifies as a Half-Course for Graduation in Arts.

<sup>4</sup> Besides charge of 10s. for Laboratory Expenses.

<sup>5</sup> Besides Garden Fee of 5s.

<sup>6</sup> For Fees see footnote 3, page 222.

## FEES FOR SECOND OR SUBSEQUENT ATTENDANCES.

1. *Lecture Courses*, which qualify alike for Graduation in Science and Medicine: Second attendances on £4, 4s. Courses, £3, 3s. ; on £3, 3s. Courses, £2, 2s. ; subsequent attendances free : second attendances on £2, 2s. Courses, no reduction ; third or subsequent attendances, £1, 1s. Perpetual Tickets for initial payment, £6, 6s. No reduction for re-attendances on Practical Classes or Laboratories.

2. *Lecture Courses* which qualify both for Arts and Science : Second attendances on £4, 4s. Courses, £3, 3s. ; third or subsequent attendances, £1, 1s. ; second attendances on £3, 3s. Courses, £2, 2s. ; third or subsequent attendances, £1, 1s. ; second attendances on £2, 2s. Lecture Courses (not being Honours Half-Courses for M.A.), £1, 11s. 6d. ; third or subsequent attendances, £1, 1s. ; Lecture Courses, when fee for first attendance is less than £2, 2s., no reduction. Full Courses (being also Honours Courses for M.A.), second attendances, no reduction ; third or subsequent attendances, £2, 2s. ; second attendances on £2, 2s. Courses (being also Half-Honours Courses for M.A.), no reduction ; third or subsequent attendances, £1, 1s.

3. *Lecture Courses* not included in the curricula in Arts or Medicine : Second attendances on £3, 3s. Courses, no reduction ; third or subsequent attendances, £2, 2s. ; on £2, 2s. Courses, second attendances, no reduction ; third or subsequent attendances, £1, 1s. On Agriculture and Rural Economy, second attendance, £3, 3s. Perpetual Ticket by initial payment, £6, 6s.

4. *Courses in Engineering and Drawing*. No reduction for second or subsequent attendances.

5. *Practical Classes and Laboratory Courses*. No reduction for re-attendances.

MATRICULATION FEES, &c. Pages 27-29.

ENTRANCE FEE. See page 29.

## CLASS SESSIONS.

There are Two Sessions in each year, viz. :—

I. The Winter Session, which opens on 14th October 1902, and closes on 27th March 1903. Practical Anatomy begins on 1st October. Courses in the Faculty of Medicine which qualify for Graduation in Science close on 20th March. The Practical Anatomy Rooms remain open till the end of March.

The Classes meet for the last time before the Christmas Vacation on Friday, 19th December 1902, and re-assemble on Tuesday, 6th January 1903.

II. The Summer Session opens on the 1st May, and closes on the

15th of July 1903. The Practical Anatomy Rooms remain open till the end of July.

The Graduation Ceremonials take place on Saturday, 18th October (Special), Saturday, 11th April, and Saturday, 25th July 1903.

The following means are afforded for Practical Instruction:—

### I. LABORATORIES.

PHYSICAL LABORATORY,<sup>1</sup> affording Students a practical knowledge of the construction and use of physical apparatus, and the mode of conducting experimental inquiries, daily from 10 to 3, under the Professor, assisted by W. Peddie, D.Sc.

GEOLOGICAL AND PETROLOGICAL LABORATORY, for practical instruction in the study of Minerals, Rocks, and Fossils, and the methods of plotting and drawing geological maps and sections, under the Professor, assisted by J. D. Falconer, M.A., B.Sc.

ENGINEERING DRAWING CLASS ROOM, daily during the Winter Session, from 10 to 4, for instruction in drawing and drawing-office routine.

THE ENGINEERING (FULTON) LABORATORY, open daily from 10 to 5, for practical instruction in the processes employed by the Engineer in the Experimental Determination of the Physical and Economical Constants of Materials, Machines, and Prime Movers.<sup>2</sup>

PRACTICAL INSTRUCTION IN OFFICE AND FIELD-WORK, in connection with the Summer Course on Surveying, Levelling, &c., from 9 to 4.

AGRICULTURE DEPARTMENT in the Museum of Science and Art, open daily to Students attending the Agriculture Class. Excursions to farms are made on Saturdays. The leading agricultural newspapers are left for the use of Students in the Agriculture Lecture Room.

ROYAL OBSERVATORY, open to Students of Astronomy on Friday evening, from 7.30 P.M.

ROYAL BOTANIC GARDEN LABORATORY at the ROYAL BOTANIC GARDEN, open daily for the practical study of plants and for research, under the Professor, assisted by A. W. Borthwick, B.Sc., and William Smith, M.A.

PHYSIOLOGICAL LABORATORY, for Physiological Research, and the study of Practical Physiology, open daily, under the Professor, assisted by T. H. Milroy, M.D., B.Sc.; P. T. Herring, M.D.; John Malcolm, M.D.; and Sutherland Simpson, M.D., B.Sc.

The CHEMICAL LABORATORIES (distinct from the Practical Chemistry Class Room) have accommodation for forty Students. They contain the necessary equipment for a complete course of instruction in the

<sup>1</sup> Fees.—Three months' Course of two hours daily, £2, 2s.; whole Academic Year, two hours daily, £4, 4s.; whole Academic Year for hours during which the Laboratory is daily open, £6, 6s.

<sup>2</sup> Fee.—Winter Session, £6, 6s.

various branches of Chemical Work and for Research. The instruction given includes Complex Qualitative Analysis, Quantitative, Inorganic, and Organic Analysis (with special courses in Gas Analysis, Assaying, &c.), and Chemical Preparations. The training is suited not only for Students studying for Science and Arts Degrees, or for the Examinations of the Institute of Chemistry, but also for persons desiring to qualify themselves as Analysts, Technical Chemists, &c.

The Laboratories<sup>1</sup> are open from 9.30 to 4.30 daily, during the Winter and Summer Sessions, and are under the charge of Professor Crum Brown, assisted by Leonard Dobbin, Ph.D.; Hugh Marshall, D.Sc.; W. W. Taylor, M.A., D.Sc.; James Kerr, B.Sc.; and A. D. White, B.Sc.

The Chemistry Department will be closed on 20th March and 15th July for the Winter and Summer Sessions respectively.

DISSECTING ROOMS, open daily under Professor Sir William Turner, K.C.B., assisted by David Hepburn, M.D.; David Waterston, M.D.; E. B. Jamieson, M.B., Ch.B.; Henry Wade, M.B., Ch.B.; and other assistants. Open 1st October 1902 and 1st May 1903, and continue open till the end of March and of July for the Winter and Summer Sessions respectively.

NATURAL HISTORY LABORATORIES,<sup>2</sup> for research and for study of the structure and development of Invertebrate and Vertebrate forms, open daily, under the Professor, assisted by J. Beard, D.Sc.; and J. H. Ashworth, D.Sc.

PUBLIC HEALTH INSTITUTE, Warrender Park Road, for Laboratory Work for Candidates for qualifications in Public Health and for chemical and bacteriological research in connection with prevention of disease, open daily, under the Professor, assisted by J. Buchanan Young, M.B., D.Sc. Open 14th October 1902 and 1st May 1903.<sup>3</sup>

## II. MUSEUMS. See pages 56-59.

<sup>1</sup> Fees.—*Whole-day*—Winter Session, £10, 10s.; Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half-day*—Winter Session, £6, 6s.; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order. Students who are not Matriculated may attend the Chemical Laboratory on payment of the entrance fee of 5s. in addition to the Laboratory fees. Intending Students should make early intimation of their wish to obtain places in the Laboratory as the accommodation is limited.

<sup>2</sup> Fees.—Winter Session, £10, 10s.; Summer Session, £6, 6s.

<sup>3</sup> Fees.—*Whole-day*—Winter Session, £10, 10s.; or Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half-day*—Winter Session, £6, 6s.; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order. Students who are not Matriculated may attend the Public Health Laboratory on payment of the entrance fee of 5s. in addition to the Laboratory fees.

## Courses of Lectures.

1902-1903.

### I.—PURE SCIENCE.

#### I. MATHEMATICS.

PROFESSOR CHRYSTAL.

CHARLES TWEEDIE, M.A., B.Sc., *Lecturer.*

For Synopses of Lectures, see under Faculty of Arts.

### II. ZOOLOGY, including COMPARATIVE ANATOMY.

PROFESSOR EWART.

For Synopses of Lectures on Zoology and of Courses on Practical Zoology, see under Faculty of Medicine.

#### COMPARATIVE EMBRYOLOGY.

J. BEARD, D.Sc., *Lecturer.*

The Course consists of Lectures and Practical Work.

*Lectures.*—The following subjects will be dealt with :—Conjugation and sexual reproduction, the maturation, &c., of the egg and spermatozoon, the modes of formation of the germinal layers in a series of selected types, the development of Scyllium or Raja, Amphioxus and Rana as a basis for general Vertebrate Embryology, the organogeny of the chief systems of organs in the Vertebrata, the evolution and comparative development of the placenta. A few lectures will be given on the general principles and theory of Comparative Embryology, the recapitulation theory, and the nature of larval forms.

*Practical Work.*—Each member of the Class will have an opportunity of preparing for himself and studying a series of preparations to illustrate the development of Salmo, Rana, Gallus, and other forms. In addition, an extensive series of preparations of Raja, Scyllium, Torpedo, and Lacerta. &c., and of certain Invertebrate forms will be available.



In the Laboratory Work members of the Class may confine their studies to one particular type, or to some selected branch, such as Mammalian Embryology.

*Books for reference.*—Marshall's "Vertebrate Embryology"; Hertwig's "Embryology of Man and the Higher Vertebrates"; Korschelt und Heider's "Vergleichende Embryologie der Wirbellosenthiere"; and E. B. Wilson's "The Cell."

#### MORPHOLOGY OF THE VERTEBRATA.

A Course of twenty-five Lectures on the Morphology of the Vertebrata; the nervous system and its sense organs and the genito-urinary system receiving particular attention.

As far as time permits the question as to the morphological nature of the vertebrate head and skeleton will be discussed.

#### INVERTEBRATE ZOOLOGY

J. H. ASHWORTH, D.Sc., *Lecturer.*

A Course of twenty-five Lectures on the Morphology of the Invertebrata. This year the Lectures will be on the Arthropoda, Mollusca and Echinodermata. In the Laboratory members of the class will study types selected from the above-named groups.

#### III. BOTANY.

PROFESSOR BAYLEY BALFOUR.

*Winter Session, 1902.*

*Lectures.*—A Course of advanced lectures and advanced work in the Botanical Laboratory is provided for.

*Summer Session, 1903.*

This Course is the same as for Students of Medicine with additional Laboratory work.

#### PLANT PHYSIOLOGY.

A. W. BORTHWICK, B.Sc., *Lecturer.*

A Course of Lectures and Practical Demonstrations will be given at the Royal Botanic Garden in the Winter and the Summer Sessions.

IV. NATURAL PHILOSOPHY.

PROFESSOR MACGREGOR

C. G. KNOTT, D.Sc., *Lecturer on Applied Mathematics.*

WILLIAM PEDDIE, D.Sc., *Lecturer on Experimental Physics.*

*For Synopses of Courses see under Faculty of Arts.*

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., *Lecturer.*

*For Synopses of Courses see under Faculty of Arts.*

V. CHEMISTRY.

PROFESSOR CRUM BROWN.

For Synopses of Courses, see under Faculty of Medicine.

ORGANIC CHEMISTRY.

This Class meets daily during the Summer Session at 1 P.M.

PROFESSOR CRUM BROWN, or *Lecturer.*

ADVANCED CHEMISTRY.

Course of twenty-five Lectures to begin after Christmas.

CHEMICAL THEORY.

LEONARD DOBBIN, PH.D., *Lecturer.*

The subjects will vary from year to year. They will include historical matters, and discussions of the more important chemical theories which are at present productive or which have been superseded. The Class will meet on Mondays and Fridays at 10 A.M., during the Summer Session. The Subject proposed for 1903 is The History of the Progress of Inorganic Chemistry since 1750.

MINERALOGY AND CRYSTALLOGRAPHY (ADVANCED).

HUGH MARSHALL, D.Sc., *Lecturer.*

Daily, at 9 A.M., beginning Friday, 1st May. Fee, £2, 2s.  
The earlier part of the Course will be on Physical Crystal-

lography generally, including the optical and other properties of crystalline substances and the geometrical properties of crystals. The latter part will deal specially with those portions of Systematic Mineralogy not included in the earlier section, and with the Descriptive Mineralogy of minerals which are important from a geological or a chemical point of view. Some of the meetings will be devoted to Elementary Practical Work and Demonstrations.

#### VI. ASTRONOMY.

PROFESSOR COPELAND.

For Synopsis, see under Faculty of Arts.

An Advanced Practical Course, consisting of thirty meetings of two hours each, may be held in Summer.

#### PRACTICAL ASTRONOMY (ADVANCED SUMMER CLASS).

This Class will only be held if a sufficient number of Students present themselves. It will meet at the Royal Observatory, Blackford Hill, on Tuesdays and Fridays in the Summer Session. Evening hours will also be arranged to suit the progress of the work.

#### VII. HUMAN ANATOMY, including ANTHROPOLOGY.

PROFESSOR SIR WILLIAM TURNER, K.C.B.

For full Synopsis of Lectures on Anatomy and for Course of Practical Anatomy, see under Faculty of Medicine.

#### ANTHROPOLOGY.

If a sufficient number of Students express their intention of selecting Human Anatomy, including Anthropology, as a subject for the Degree of B.Sc., the Professor of Anatomy will deliver, during the Summer Session, a course of twenty-five Lectures on Physical Anthropology. Members of the Class are trained in Anthropometrical methods. Fee, £2, 2s.; or for Students who take the Summer Course of Practical Anatomy, £1, 1s.

#### VIII. PHYSIOLOGY.

PROFESSOR SCHÄFER.

For Synopsis of Lectures, and Elementary Courses of Practical Physiology and Histology, see under Faculty of Medicine.

ADVANCED PRACTICAL PHYSIOLOGY.

This Course is devoted to Experimental and Chemical Physiology and Histology of a more advanced nature than that of the ordinary course of Practical Physiology. It is assumed that those who propose attending this Course have already attended the Elementary Course (*or*, a similar Course elsewhere) and the Lectures. The Course is divided into three parts, viz., (1) Experimental, (2) Chemical, (3) Histological. All three parts are taken in the Winter Session, and occupy six hours a week.

This Course is adapted for those preparing for examinations in Natural Science and Honours Examinations in Physiology, and for those who may afterwards desire to prosecute Physiological Research.

IX. GEOLOGY, including MINERALOGY.

PROFESSOR GEIKIE.

*Winter Course.*

I. CLASS OF GEOLOGY AND MINERALOGY.—Daily, at 4 o'clock. The Course embraces :—

1. *Dynamical Geology*—A discussion of the nature and causes of geological changes effected on the surface and within the interior of the earth.

2. *Mineralogy*—An account of the physical and chemical characters of minerals, and a description of some of the more important and typical species in the various mineral groups.

3. *Petrology*—A description of the various families of rocks.

4. *Structural Geology*—A description of the geological structure and relations of rock-masses to each other.

5. *Palæontological Geology*—An account of the nature and use of fossils in geological inquiry.

6. *Palæontology*—A description of the more important types of life represented by fossils.

7. *Historical Geology*—The history of the successive geological periods.

8. *Physiographical Geology*—An inquiry into the origin of the present outlines of the earth's surface.

This Course, after Christmas, is a Half-Course qualifying for Graduation in Arts.

[*N.B.*—For Arts Students a course of ten laboratory demonstrations of two hours each forms part of the ordinary Winter Course. They must also attend the Field Demonstrations.]

*Text-Books*—"Outlines of Geology," by the Professor (*Stanford*); Hatch's "Mineralogy" (*Whittaker*); Hatch's "Petrology" (*Sonnenschein*) or Harker's "Petrology for Students" (*Cambridge University Press*). More detailed works of reference, most of which are in the College Reading-Room, are recommended for each branch of the lectures.

II. CLASS OF PRACTICAL MINERALOGY AND GEOLOGY.—Two hours (2 to 4), on Mondays, Wednesdays and Fridays, under superintendence of the Professor.

III. FIELD DEMONSTRATIONS.—Short excursions are made on Saturdays to places of geological interest near Edinburgh, when the Class Lectures are illustrated by demonstrations in the field, and practical instruction is given in Geological Surveying.

These Field Demonstrations are open to Students attending either the Class Lectures or the Practical Class.

Adjoining the Class-room is a small Museum exhibiting the characters of minerals and rocks, and the typical fossils of the different geological systems.

#### *Summer Course.*

The following subjects are dealt with in this Course :—

1. *Petrography*.—(The lectures are illustrated by demonstrations in the Laboratory and the Class Museum.)
2. *Palæontological Geology*.—(Class Museum, see above.)
3. *Geotectonic or Structural Geology*.—Under this head *Dynamical Geology* is also discussed in more or less detail.
4. *Geological Surveying*.
5. *Economic Geology: application of Geology to Mining, Engineering, Agriculture, Public Health, &c.*
6. *Physiographical Geology*.

*Structural* and *Field Geology* form the principal portion of this Course, but no previous knowledge of Geology is required of the student—the elementary principles of the science being set forth both in the lecture-room and the field. The Class meets on Mondays, Wednesdays, and Fridays at 4, and a series of practical lessons on the study of rocks will be given at the beginning of the Session on Tuesdays and Thursdays at the same hour. The Saturdays, so far as possible, are devoted to field demonstrations, when the mode of geological mapping and section drawing is explained and illustrated. This Course is a Half-Course qualifying for Graduation in Arts.

PETROLOGY.

J. D. FALCONER, M.A., D.SC., *Lecturer.*

Lectures and Practical Work, on Mondays, Wednesdays, and Fridays, from 10 to 12, in Summer.

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II.—APPLIED SCIENCE.<sup>1</sup>

I.—ENGINEERING.

The work of this department includes Lectures, Drawing, Office work, practical work in the Laboratories, and visits to Engineering works and manufactories, details of which are given below.

It must be clearly understood that these Classes are not intended to supersede the practical training which can only be acquired in the office or workshop during a pupilage or its equivalent. The training given in these Classes, however, will be found to be of value in enabling those who have gone through them to obtain more advantage from the opportunities afforded them during their professional pupilage or apprenticeship.

Though primarily intended to meet the wants of students who propose to devote themselves to some branch of engineering, the work of the Classes will be found to be of direct practical value to those who are training for the profession of an architect, and also to all those who propose to engage in occupations directly connected with manufacturing industry.

*Courses of Study.*

The following Courses are recommended for Civil Engineering Students, who are preparing for the Degree of B.Sc. in Engineering :—

*1st Year.* — Mathematics [Intermediate Honours Class (Winter), or Advanced Class (Summer)], Chemistry and Chemical Laboratory, or Natural Philosophy and Laboratory.

*2nd Year.* — Junior Engineering, Engineering Drawing (Junior), Chemistry and Chemical Laboratory, or Natural Philosophy and Laboratory.

*3rd Year.* — Senior Engineering, Engineering Drawing (Senior), Applied Mathematics (Advanced Science Class), Engineering Laboratory, Geology, or other Optional Course.

The Engineering Field-Work Class may be taken in any of the Summer Sessions.

Students who are preparing for Mechanical or Electrical Engineering will require to take certain Classes in the Heriot-Watt College.

Courses for such students will be announced by Posters on the Boards at the entrance to the University.

## I. CHEMISTRY.

PROFESSOR CRUM BROWN.

For Synopsis of Courses, see under Faculty of Medicine.

## II. MATHEMATICS.

PROFESSOR CHRYSTAL.

CHARLES TWEEDIE, M.A., B.Sc., *Lecturer.*

For Synopses of Lectures, see under Faculty of Arts.

## III. NATURAL PHILOSOPHY.

PROFESSOR MACGREGOR.

DR. W. PEDDIE.

For Synopsis of Lectures, see under Faculty of Arts.



IV. ENGINEERING.

PROFESSOR HUDSON BEARE.

*Winter Session.*

Two complete Courses of Lectures will be given in each Winter Session, and each of these complete Courses is divided into two Half-Courses. A student is permitted to attend a Half-Course of either of the two complete courses on payment of half the fee for a complete Course.

*Junior Course.*

*Lectures.*—Monday, Wednesday and Friday, 9 A.M.

*Laboratory Instruction.*—On two days a week, for at least two hours on each day. The hours for this will be arranged at the first meeting of the Class.

The following subjects will be dealt with in these Lectures:—

During the first half of the Course, from October to Christmas, the Materials of Construction, their Origin, Preparation, Properties and Uses; the Friction and Efficiency of Machines; Elementary Hydraulics, and Hydraulic Appliances, including the Gauging of Water.

In the second half of the Course, after Christmas, the Lectures will deal with the Strength and Elasticity of Materials, the Strength and Stiffness of Beams and Columns of Shafts, and of Framed Structures.

*Senior Course.*

*Lectures.*—Tuesday, Thursday and Saturday, at 9 A.M.

*Laboratory Instruction.*—On two days a week, for at least two hours on each day. The hours for this will be arranged at the first meeting of the Class.

In the first half of the Course, from October to Christmas, the Lectures will deal with Waterworks, Drainage and Sewerage Works, and Sewage Disposal, including the Design of Earthworks and Masonry Structures required in such Engineering works

In the second half of the Course, after Christmas, the Lectures will treat of Railways and Tramways, and of works connected with Rivers, Canals, Harbours, Breakwaters, &c.

In each Class Monthly Examinations are held, and each week unless there be an examination, a problem paper is set, to be worked out at home. The questions proposed are such as are met with in the Practice of Engineering, and the answers, being returned to the students annotated and corrected, form a body of examples for subsequent reference.

There is also a Tutorial Class held weekly, at which the questions set in the Problem Paper of the previous week are discussed and explained.

Visits to Engineering Works and Manufactories will be made from time to time, and as far as possible, one visit will be arranged for in each month of the Session.

#### *Summer Session.*

#### ENGINEERING FIELD-WORK.

A course of Practical Instruction in Surveying, Levelling, Setting Out, and Calculation of Quantities, is given each Summer. The Course consists of Lectures, of practical work in the Field, and of plotting work in the Drawing Office. The subjects dealt with include Surveying with the chain and with angular instruments; Levelling; the Optical and Mechanical Principles, Tests and various Adjustments of Surveying and Levelling Instruments; Setting out of Curves; Triangulation and Tacheometry. The Class will meet three times a week, and the whole of each of these days will be occupied in the work of the Class, from 9 until 4. The Course will begin early in May, and will be completed about the middle of June.

#### ENGINEERING DRAWING.

W. HUME KERR, M.A., B.Sc., *Lecturer.*

The Drawing Class will be open daily, except Saturday, from 10 A.M. to 4 P.M. Each Student is required to attend at least eight hours per week (the times of attendance to be arranged at the beginning of the Session). Every Student is, however, expected to devote additional time to the Drawing Office work. It is desirable, when possible, that Students should take the Class of Engineering Drawing simultaneously with the Class in

Engineering, but the Junior Class may be attended by those who are preparing to enter the Engineering Class in the following Session. These Classes will be found useful also to those who propose to become Architects or Surveyors. The work is arranged so as to form a Two Years' Course.

*Junior Course.*

*Lectures.—*

The subjects dealt with in this Course will include the following:—GRAPHICAL CALCULUS; Signs of Lines and Areas; Additions of Vectors and Rotors; Vector and Link Polygons, and their application; Areas of Plane Figures; Centroids; Volumes, Moments of Inertia; the Use and Theory of such instruments as Logarithmic Slide Rules, Planimeters, &c. PROJECTIVE GEOMETRY; Properties of similar figures; Plan and Elevation; Perspective and Projective Geometry; Construction of Sections of Conical and Cylindrical Surfaces, and of Surfaces of Revolution; Development. GRAPHICAL STATICS; Theory of the Arch; Suspension Bridge and Catenary; Lines of Pressure; Reciprocal Figures; Framed Work; Bending Moment, and Shear Curves for Simple Beams; Theory of the Elastic Line.

*Senior Course.*

*Lectures.—*

This Course is arranged to be as far as possible a progressive Course of Civil Engineering Design, in which the Students will apply practically the instruction they receive in the Lectures. It will include therefore the making of working drawings of the details of girders, of steel bridges and roofs, and of structures in masonry, timber, &c. Instruction will be given in the photographic methods of reproducing tracings, &c.

ENGINEERING LABORATORY.

The Fulton Engineering Laboratory, which was established in the year 1889, is intended to provide systematic instruction in the experimental methods which serve for determining the numerical data employed in Engineering calculations, and to familiarise Students with the Strength and other physical pro-

perties of the chief materials used by Engineers. Such instruction is valuable for two reasons. In the first place, only those who have had practical acquaintance with experimental processes can judge of the limits of accuracy of numerical data derived from experiments; and in the second place, engineers are frequently called upon to make special experiments for their own guidance, and in such cases a previous training in the art of experiments and in the methods which have been successfully adopted by others will be found to be of the utmost value.

Experiments will be carried on in the Laboratory on the Strength of Materials, on Friction, on Hydraulics, &c. The Laboratory contains a Testing Machine capable of exerting a pull of 100 tons, with specially arranged appliances for making accurate measurements of small strains, a torsion testing machine, cement testing machines, beam testing machine, tanks and other appliances fitted up for experiments on Hydraulics and on the Flow of Water, and a considerable number of the ordinary workshop tools, both for wood and metal work for the preparation of apparatus and specimens.

As the Instruction in the Laboratory is, to a large extent individual, it is possible for Students to enter at any period of the Session. Advanced Students, especially those who have already been engaged in practical work before entering the College Class are encouraged to undertake original investigations on matters in relation to which Engineers still require experimental data.

#### MUNICIPAL ENGINEERING.

The attention of Students attending the Engineering Class, who propose to devote themselves to such work as falls within the scope of what is usually called Municipal or Sanitary Engineering, is directed to the Course of Lectures on Sanitary Engineering and Building Construction, which has been specially arranged for candidates for Degrees in Public Health. For full details see under Public Health, p. 235.

*- Insertion to face page 234.*

## COURSES IN APPLIED SCIENCE— ENGINEERING.

### HERIOT-WATT COLLEGE.

In accordance with an agreement entered into between the University Court and the Governors of George Heriot's Trust for the purpose of arranging a joint curriculum of study for the degree in Engineering Science, the following classes in the Heriot-Watt College should be attended by University students preparing for the B.Sc. degree who propose to devote themselves to Mechanical and Electrical Engineering:—

#### MECHANICAL ENGINEERING.

PROFESSOR RICHARD STANFIELD, M. INST. C.E.,  
F.R.S.E., A.R.S.M.

Lectures—Monday and Wednesday, 10-11.

Tutorial—Thursday, 11-12.

Laboratory—Thursday, 1-4.

#### COURSE ON THE THEORY AND PRACTICE OF THE STEAM ENGINE AND GAS AND OIL ENGINES.

THERMODYNAMICS.—Theory of the steam-engine ; calculation of internal and external energy ; thermal efficiency ; properties and laws of steam and permanent gases ; efficiency of perfect heat-engine ; calculation of density of steam ; entropy ; adiabatic equation ; entropy diagrams ; Rankine's efficiency ; cylinder condensation ; superheating ; compounding, principle and advantage of.

ENGINE AND BOILER TESTING.—Calorific value of fuels ; calorimeters ; flue gas analysis ; radiation and other losses in boilers ; heat balance-sheet ; indicators and indicator diagrams ; determination of moisture in steam ; steam calorimeters ; effect of jackets ; Willans' law ; brakes ; testing indicators and gauges.

**DISTRIBUTION OF STEAM.**—Valves and valve gears ; Zeuner valve diagrams ; Meyer's expansion gear ; radial gears ; governors ; stability and power of governors ; link motions.

**STEAM ENGINES.**—Various forms ; high-speed engines ; types of compound engines ; computation of size for a given horse-power ; condensers—jet, surface, and evaporative ; steam turbines ; balancing of engines.

**BOILERS.**—Theory and construction of various types ; Lancashire ; multitubular ; marine ; water-tube ; economical combustion of fuel ; mechanical stokers ; grate and heating surfaces ; evaporative power ; economisers and feed-heaters ; injectors ; boiler inspection ; natural, forced, and induced draught ; super-heaters ; boiler fittings ; non-conducting compositions for boilers and steam-pipes ; steam-traps.

**GAS AND PETROLEUM ENGINES.**—The different cycles of operations ; various modern forms ; methods of igniting and governing ; scavenging principle ; testing gas and oil engines ; gas and oil calorimeters ; vaporisation and flash-points of petroleum ; efficiency of gas and oil engines ; producer gas, gas producers ; blast-furnace gas for motive power ; starting gear.

During the above course students will carry out complete engine and boiler tests with the experimental engine and boiler ; also gas and oil engine tests, etc.

The Engineering Laboratory is equipped with a large Compound Steam Engine and Locomotive Boiler, arranged for, and fitted with, all the necessary apparatus for most complete tests of engine and boiler economy, etc. The engine is designed to work compound or simple expansion, condensing or non-condensing, and with varying crank angles. Tanks are arranged so that the feed and condensing water can be accurately measured. A steam calorimeter is also fitted to measure the moisture in the steam supplied to the engine. Brakes and all needful indicator tackle are provided, and thermometers and gauges are attached to all essential points. Coal, gas, and oil calorimeters are also provided.

The large Gas Engine used for driving the machinery in the

Engineering Workshop is also arranged for experimental work ; and there is a 5-brake-horse-power Petroleum Engine, fitted with all necessary appliances for making tests.

#### COURSE ON KINEMATICS AND DYNAMICS OF MACHINERY.

KINEMATICS OF MACHINES.—Definition of a machine ; higher and lower pairing ; relative linear and angular velocity of mechanisms ; rolling contact ; the theory of toothed wheels ; epicycloidal and involute teeth ; cams.

DYNAMICS OF MACHINES.—Forces required to accelerate the moving parts of machines ; velocity and acceleration diagrams ; variation of crank effort in direct-acting engine with variable steam pressure ; fluctuation of energy ; variation of speed ; fly-wheels ; effect of inertia of reciprocating parts of an engine.

FRICTION OF MACHINES.—Friction of sliding, turning, and screw pairs ; belt friction ; brakes and dynamometers : graphical solution of engineering problems.

#### MECHANICAL DRAWING.

PROFESSOR RICHARD STANFIELD.

Lectures—Tuesday, 3-4.

Drawing Class—Tuesday, 1-4 ; Friday, 2-4.

Principles of machine design ; complete working drawings of engines, machines, or parts of machines ; making working drawings from freehand sketches and measurements of the machinery in the engineering laboratory. Working out valve motion diagrams ; inking in and colouring finished drawings ; making tracings suitable for taking photographic prints for use in the workshop.

#### ELECTRICAL ENGINEERING.

PROFESSOR BAILY, M.A., M.I.E.E., F.R.S.E.

Lectures—Tuesday and Thursday, 10-11.

Monday, 11-12.

Laboratory—Wednesday and Friday, 11-1.



The subjects dealt with in the lectures include a treatment of electrical instruments for the measurement of electromotive force, current, resistance, power, etc. ; the testing of magnetic materials ; the theory and construction of continuous and alternating current dynamos and motors, transformers, accumulators, arc and incandescent lamps, and other electrical appliances. A short treatment will also be given of the design of central stations, the distribution of power by electrical means, electric traction and electrical operations in factories. The lectures on Mondays, 11-12, are devoted to a treatment of electrical theory, and systems and methods of measurement are dealt with in a manner suitable for electrical engineers.

In the laboratory, students work for the most part in small groups, and carry out work on the testing and calibration of instruments, batteries, lamps, electrical and magnetic materials, etc., and tests are made on the dynamos and motors in the laboratory. The laboratory contains a large 26 h.-p. motor for driving the dynamos, a 10-kilowatt continuous current dynamo, a 10-kilowatt alternator, a 4 h.-p. motor and dynamic coupled set, and other small motors, transformers, etc. A battery of 60 large cells supplies current at any required pressure for experimental work, and the town mains are also available. There is a large equipment of commercial and standard instruments of all kinds for commercial and scientific testing and experimental work.

# V. APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., *Lecturer.*

The Advanced Science Course on Applied Mathematics, of fifty Lectures, is adapted for Engineering Students. In the treatment of the subject practical applications and, in particular, graphical methods of solution will receive attention ; while the simpler processes only of the differential and integral calculus will be used. The Course will include the Kinematics, Kinetics, and Statics, of particles, rigid solids, flexible cords, and perfect fluids ; and the more elementary parts of Strains and Elasticity.

*Books recommended.* — The simpler sections of Tait's *Dynamics* ; Rankine's *Applied Mechanics*.

# VI. PHYSICAL APPLICATIONS ON VECTOR ANALYSIS.

This Summer Class will be found useful to Engineering Students, especially those who purpose studying Electrical Science. See outlines of Lectures under Faculty of Arts.

# VII. GEOLOGY AND MINERALOGY.

PROFESSOR GEIKIE.

For Synopsis of Lectures, see Summer Course under Pure Science.

## III.—PUBLIC HEALTH.

### I. LABORATORY WORK.

PROFESSOR HUNTER STEWART.

#### (I.) PRELIMINARY WORK.

Exercises in weighing, each worker testing the accuracy of the graduation of his pipettes and burettes by weighing. Taking specific gravities of solids and liquids.

#### (II.) CHEMICAL AND PHYSICAL WORK.

AIR.—Temperature, Maximum and Minimum Thermometers —Pressure—Reading of Barometer, and correction for Elevation and Temperature—Moisture—Dew Point by Daniell's

Hygrometer and Wet and Dry Bulb Thermometers—Determination of Absolute and Relative Humidity—Quantitative Determination of Carbonic Acid and Ammonia.

SOIL.—Determination of Water Capacity—Porosity and Permeability of Sand and Loamy Soil—Determination of Ammonia and Organic Nitrogen in Soil, and of Carbonic Acid in Ground Air—Use of Earth Thermometers.

WATER.—Total Solid Residue and Quantitative Estimation of Lime, Magnesia, and Sulphuric Acid in a Water Residue—Chlorides—Hardness—Lead in Water (colorimetrically)—Organic Matter in terms of "Albuminoid Ammonia," Organic Carbon and Nitrogen, and as "Oxygen required"—Nitrates and Nitrites by conversion into Nitric Oxide and Measurement of the Gas—Nitrites by Gries' Method.

*Gases in Water.*—Determination of Total Volume of Gases and of the Nitrogen and Oxygen—Estimation of Oxygen by Manganous Chloride.

*Sewage.*—Composition of Sewage and of Effluents from Purification Works.

FOODS. — *Cereals, &c.* — Estimation of Albuminoids by Kjeldahl's Method, Fat by Extraction, Starch by conversion into Sugar.

*Sugar.*—(1) By Fehling's Solution volumetrically, and in Terms of Weight of Copper Oxide reduced (2) by Polarimeter.

*Milk.*—Estimation of Albumen, Fat, Sugar, and Salts by Ritthausen's Method, and by Hoppe-Seyler's Method—Specific Gravity and Reaction of Milk.

*Butter and Butterine.*—Moisture—Salt—Casein—Determination of Nature of the Fat in terms of Volatile and Fixed Acids.

*Tea and Coffee.*—Moisture, Extract, Ash.

*Cocoa.*—Moisture, Fat, Ash.

*Wine, Beer, &c.*—Extract, Alcohol, Sugar, and Acidity.

*Lime Juice and Lime Juice Cordial.*—Extract, Ash, Sugar, Acidity.

DISINFECTANTS. — Estimation of available Chlorine in

Bleaching Powder—Determination of Comparative Value of different Disinfectants by lethal action on Microbes.

VENTILATION.—Determination of the amount of Carbonic Acid and of moisture in the air of an occupied room. Each worker reports at least once on the state of the air of a room, ventilated by extraction, in terms of the amount of Carbonic Acid present, and also of the amount of air renewal, measured by the Anemometer.

The foregoing work is done by each worker, and in each subject his results must satisfy the teacher before he can leave it. During this part of the Course, Laboratory Lectures are given twice a week, when the rationale of the methods and the interpretation of the results are discussed.

### (III.) BACTERIOLOGICAL.

The subject of the Laboratory Lectures during this part of the Course consists of a consideration of:—

The Morphology and Classification of the Micro-organisms—Sterilization by Dry and Moist Heat—Disinfection—Methods of Cultivation—Methods of obtaining Pure Cultures in Solid and Liquid Media—Anærobic Micro-organisms, and the Methods for their Culture—Bacterial Products, Ptomaines and Antitoxins—Micro-organisms in Water, Air, and Soil—Removal of Micro-organisms from Water (1) on the large scale by Sand Filtration—Construction and working of Filter Beds—Theory of Sand Filtration—(2) On the small scale by Pasteur-Chamberland, Berkefeld, and other Filters—Micro-organisms in Milk—Sterilization of Milk on small and large scale—Pasteurization of Milk.

Practical work by each worker—Sterilizing all glass apparatus, *e.g.* tubes, dishes, pipettes, &c.

Preparation in all stages of the following Culture Media—Nutrient Broth, Jelly, and Agar Agar, Blood Serum, Potato Gelatine, Worts Gelatine, Glycerine Agar, Potatoes in Roux's Tubes.

From a mixture of several Micro-organisms to get a pure

Culture of *one*, by (1) method of dilution in liquid medium, and (2) by plate cultivation on a solid medium.

Cultivation, staining, and microscopical examination of :—

*Mould Fungi*.—*Penicillium*—*Aspergillus*—*Mucor*.

*Yeast Fungi*.—Yeast—*Mycoderma Vini*.

*Fission Fungi*.—The ordinary bacteria found in Air, Water, Soil, or Milk, *e.g.* *Bacillus Subtilis*, *Mycoides*, *Megaterium*, *Proteus*, Lactic Acid, *Prodigiosus*, *Micrococcus Aurantiacus*, *Ureæ*, &c. ; and also the following pathogenic forms—Tubercle, Diphtheria, Anthrax, Typhoid, Tetanus, Cholera, Plague, *Coli Communis*, and Enteritidis.

Cultivation of Micro-organisms in Air by Petri's Method, in Soil (from borings at different depths), and in Water. Daily for a week each worker bacteriologically examines the Edinburgh Water Supply. The filter beds are visited, and samples of the water both before and after filtration are bacteriologically examined.

## II. PHYSICS.

PROFESSOR MACGREGOR AND DR PEDDIE.

A practical study of the following :—

(1) *Properties of Solids and Fluids*.—Specific gravity, elasticity as exhibited under tension, torsion and flexure ; laws of liquid pressure ; surface tension ; viscosity of liquids ; variation of volume with pressure for gases and vapours.

(2) *Heat*.—Corrections of thermometers ; variation of the volume of a gas with temperature ; pressure of vapour in the atmosphere ; boiling points ; specific heat ; latent heat.

(3) *Light*.—Focal lengths and magnifying powers of lenses and systems of lenses ; refractive indices of solids and liquids ; photometry ; laws of polarization of light ; rotation of the plane of polarization ; spectrum analysis.

(4) *Electricity*.—Resistance of wires, electrolytes, galvanometers and batteries ; determination of strength of current.

## III. GEOLOGY.

PROFESSOR GEIKIE.

For Synopses of Courses, see under Pure Science.

IV. PUBLIC HEALTH AND SANITARY SCIENCE.

PROFESSOR HUNTER STEWART.

1. Sanitary Law, specially the Public Health Act (Scotland), 1897—The English Acts—Notification of Infectious Diseases—Housing of the Working Classes—Factories—Cowsheds and Dairies—and Nuisance removal Acts, &c., Bye-laws.

2. Vital Statistics—Census, how determined—Death Rates crude, corrected and standard—Birth and Marriage Rates—Life Tables—Zymotic Death Rate—Age Rate, Case Mortality—Variations in Case Incidence and Case Mortality—Value of Vital Statistics in Public Health Work—Mortality as affected by Occupation—Sickness Rates, &c.

3. *Epidemiology*—Medicine in relation to Public Health—Immunity—Prophylaxis—Vaccination—Geographical distribution and etiology of the infectious diseases—Diseases of Animals communicable to man—Food Poisoning, Botulismus—Climates as determined by prevalent winds, temperature, moisture, altitude, and soil—Tropical, Temperate, and Arctic Climates.

4. Practical Sanitation—Water Supplies—Infectious Diseases Hospitals—Disinfection of clothing, dwellings, and discharges from sick—Slaughter-houses—Meat inspection—Ventilation—Sewage disposal—Hygiene of Schools—Disposal of the dead.

V. SANITARY ENGINEERING, BUILDING CONSTRUCTION, ETC.

PROFESSOR HUDSON BEARE.

(1) Site, environment, and construction of Dwellings, Sanitary fittings in houses.

(2) Water supply and distribution.

(3) Collection, treatment and disposal of Sewage and other Refuse.

(4) Air Supply, Ventilation and Warming.

(5) Nature, strength, and fitness of structural materials employed in Sanitary Works.

(6) Design of Sanitary Works, Municipal and Domestic.

## VI. INSTRUCTION IN MENSURATION AND DRAWING.

W. HUME KERR, M.A., B.Sc., *Lecturer*.

The Course will include the following subjects:—Scales, their Construction and Uses—Estimation of Areas and Volumes—Elements of Plane and Solid Geometry, and their application to the making of Structural Drawings from Models and Figured Sketches—The use of the Slide Rule and other Calculating instruments—Plotting of Land Surveys and Sections—Elementary Building Construction.

## VII. CLINICAL INSTRUCTION regarding Fevers and Infectious Diseases during three months in a recognised Hospital.

## IV.—AGRICULTURE.

I *a*. MATHEMATICS.

PROFESSOR CHRYSTAL.

CHARLES TWEEDIE, M.A., B.Sc., *Lecturer*.

Senior Classes, as for M.A. Synopses, see Faculty of Arts.

I *b*. ZOOLOGY.

PROFESSOR EWART.

For Synopsis of Lectures, see under Faculty of Medicine.

I *c*. BOTANY.

PROFESSOR BALFOUR.

For Synopsis of Lectures, see under Faculty of Medicine.

## II. NATURAL PHILOSOPHY.

PROFESSOR MACGREGOR.

For Synopsis of Lectures, see under Faculty of Arts.

## III. CHEMISTRY.

PROFESSOR CRUM BROWN.

For Synopsis of Lectures, see under Faculty of Medicine.

## IV. AGRICULTURE AND RURAL ECONOMY.

PROFESSOR WALLACE.

1. *Definition of Agriculture*.—Aid given by the Allied Sciences.
2. *Surface Geology*.—Formation and Classification of Soils—



their Physical and Chemical Properties. Importance of Organic Nitrogen. Fixation of free Nitrogen. Indications of good or bad Soils—Methods of Management and Improvement.

3. *Drainage and Cultivation.*—Practice—Advantages of Drainage—Irrigation—Wet-Warping—Mixing or Top-Dressing—Claying—Marling—Chalking—Liming—Paring and Burning—Clay-Burning. The Effect on Soils of Cultivation and the Growth of Plants.

4. *Implements and Machines of the Farm.*—Importance of their proper Construction and careful Management.

5. *Steam Cultivation.*—Advantages and Disadvantages—Development of the “Darby” Land Digger.

6. *Motive Powers Employed on the Farm.*—1st, Man; 2nd, Horse; 3rd, Mechanical Powers (Water, Wind, Steam)—their Values and Advantages.

7. *Farm Servants.*—Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.

8. *Importance of Rotations.*—Different Rotations and reasons why they are adopted—Systems of Farming.

9. *Our Farm Crops* (including Grain, Root, Forage, and Hay Crops).—Selection and Cultivation. Prevention of Diseases.

10. *Identification of Grasses and Valuable Pasture Plants.*—Their Characteristics and Habits—Detection of Adulterations of Seeds—Regulations to protect Farmers in buying Seeds.

11. *The Management of Permanent Pasture.*—Proper Methods of making new Pasture—its After-treatment.

12. *Weeds in Pastures* and Means of Destroying them.

13. *Silage and the System of Ensilage.*—Its Advantages, &c.—Its Suitability and Unsuitability according to Locality.

14. *Manures.*—Farm-yard Manure—Mixing, Storing, and Application—great advantage as a General Manure. Special Manures and so-called Artificials—Times and Methods of their Application. Utilization of Liquid Manure and Town Sewage.

15. *Buildings and Fences.*—Construction of Fences—General Arrangement of Farm-Buildings—best Flooring and Inside Plans and Dimensions of Byres, Cattle-Sheds, Stables, &c.—Covered Yards—Ventilation—Drainage.

16. *Live-Stock*.—Cattle, Pigs, Horses, Sheep, Poultry—Breeds of each, and suitability to Local Conditions—"Principles of Breeding." Feeding and Management—Mixtures of Food. Cost of Producing a Stone of Beef, Mutton, and Pork, showing Profit.

17. *Dairying in all its Branches*, including the suitability of surrounding Conditions—Classes of Dairy Stock, and their Management—Treatment of Milk, its Sale, its Manufacture into Cheese, Butter, &c.

18. *Feeding Stuffs*.—Suitability of Common Food Substances to different Classes of Farm Stock—Purchase and disposal of the same—their Manurial Residues.

*Text-Books*.—Wallace's "Farm Live Stock of Great Britain," M'Connell's "Note-Book of Agricultural Facts and Figures," Fream's "Elements of Agriculture," "Rothamsted Experiments," and "Soils and their Properties."

Students are invited to consult the Professor at the beginning of the Session as to their plan of work.

Periodical visits will be made to suitable Farms. A Medal may be given for the best report on these excursions.

## THE GARTON LECTURES ON COLONIAL AND INDIAN AGRICULTURE.

*Session 1902-3, 20 Lectures.*

### INDIA AND CEYLON.

*Introduction*.—General view of Agriculture of India, including the main features of the Presidencies and other great political divisions—Bombay, Madras, Central and North-West Provinces, Punjab, Bengal, Assam, Burmah, and Ceylon—with special reference to Geology, Soil, Irrigation, Climate, Peoples, Famines, and Chief Products.

*Tillage Implements*.—Indian Ploughs, Native Harrows, Hoes, Seed-drills, and Hand Implements. European Implements and their suitability or unsuitability to Indian conditions.

*Cultivation and Crops*.—Rotations and Mixtures. Tillage before and after sowing. Seed and sowing. Harvesting and preparation

for market. Commercial uses. Diseases and Injuries. Classification of Crops into Cereals, Pulses, Oil Seeds, Fibre, Fodder and Miscellaneous Crops, with special reference to the production of Wheat, Barley, Rice (Paddy), Maize, Millets (*Juar*, *Bajra*, and *Ragi*), and Sorghum—Gram and Horse-Gram, Lentil, Pea, Ground Nut, Rape, Linseed, Castor-oil Plant, Sesamum—Cotton, Jute, Ramie, and Hemp—Lucerne and Guinea Grass, Sugar-cane, Tobacco, Cinchona, Tea, Coffee, Indigo, Poppy—the commoner valuable Grasses of India, and their cultivation as practised at the Allahabad Grass Farm and other military stations in Northern India—Grass Cutting—Haymaking—Silage.

*Irrigation.*—Land and other conditions suitable and unsuitable for Irrigation. Location and relative advantages of Canal, Well, and Tank (Lake, &c.) Irrigation. Quantity of Water necessary for various crops and time of application. Water lifting appliances—The common leather bucket, the Persian Wheel, the Picotta (lever lift), and the hand scoop lift.

*Manures.*—Village refuse, Nightsoil, Cattle Manure, Ashes, Bones, Fish Manures, Saltpetre, Green Manure, Castor seed refuse.

*Live Stock.*—Characteristics of Indian Cattle—Mysore, Kistna River, Gujarat, Kankreji, Nagar, Sind, Hurrianah, Malwi, Deccan, Southern Maratha, Konkan, Kanevarya, Goranea, Bagondha, Madras Red, Trichinopoli, Gir, Nellore, Kangam, and Cinhalese—value as working and milch cattle. Buffaloes—Jaffrabad, Gujarat, Nagpur, and common breeds—their general characteristics and special milking qualities. Horses and Mules. Goats and Sheep. Common Diseases of the Domesticated Animals.

#### EGYPT.

*Introduction.*—Physical features—Soil, Climate, Population. The Fellahin or cultivating class.

*Irrigation.*—The Rise and Overflow of the Nile—The Ancient Basin system of Upper Egypt—The Indian Canal System

introduced into Lower Egypt—Drainage—The system of washing Salt Land.

*Manure*.—Pigeons' Dung — Ashes — Sabakh (Crude Salt-petre).

*The Chief Crops*.—Divided into Winter, Summer, and Autumn Crops, with special reference to Cotton, Sugar-cane, Barsim (Clover), Wheat and Barley, Maize—Rotations and Methods of Cultivation.

#### SOUTH AFRICA.

*Political Divisions*.—Cape Colony, Natal, The Transvaal, Orange River Colony, Rhodesia ; their Geological, Orographical and Land Surface Features.

*Population*.—British, Dutch, other White Nationalities, Black races, Labour and Wages.

*Cultivation*.—Rotations—Manures—Field Crops, with special reference to Wheat, Barley, Oats, Mealies (Maize), Millet, Lucerne, Sugar-cane, Potatoes and Root Crops — Possible development by means of Irrigation—Good and bad methods of Irrigation.

*Viticulture and Fruit-growing*.—Production and Exportation of Grapes, Oranges, and various tropical and semi-tropical fruits—The Wine Industry.

*Live Stock*.—The Wild Game—Cattle—Horses and Mules—Sheep and Goats—Ostriches, Breeding and Management—Dairying — Diseases, including Horse-sickness, Anthrax, Rinderpest, Redwater (Texas Fever), Scab in Sheep and Goats—Internal Parasites.

*General prospects* of South Africa as a country for immediate agricultural settlement.

[*The Garton Lectures in 1903-1904 will be devoted to India and Ceylon, Egypt and South Africa, and are free to present and last year's students of the Agriculture Class.*]

#### V. AGRICULTURAL CHEMISTRY.

A. PEEBLES AITKEN, D.Sc., *Lecturer*.

The Course comprises Lectures, Demonstrations, and Laboratory work :—

1. *The Atmosphere.*—The relation of its constituents to plant life—rain, dew, fog, and hoar frost, their causes and effects.

2. *Soils.*—Origin and formation—physical and chemical processes included in the term “weathering”—inorganic and organic constituents of soils—essential elements of fertility—work of living organisms in the soil—decay and putrefaction of vegetable matter—formation of humus—nitrification—relation of soils to air and moisture—capillarity—absorption of salts by soils—lysimetry—circumstances affecting the composition of drainage water—amelioration of soils by physical and chemical means—classification, investigation, and analysis of soils.

3. *Plants.*—Mineral and organic constituents of plants—their transformations and translocations during the life of plants

Correction to face page 244.

*The Garton Lectures in 1903-1904 will be devoted to the Dominion of Canada, Australasia, and the smaller Crown Colonies.*

4. *Manures.*—Their classification, composition, and characteristics—specific action and suitability for different soils, climates, and crops—economic use, and the principles regulating their application—methods of conducting manurial experiments—analysis and investigation of manures—valuation of manures, and of unexhausted fertility.

5. *Crops.*—Their composition and classification—fodder crops, their relative value as food—external conditions affecting their nutritive value, preservation, and digestibility—theory of rotations—crop residues and their relation to the fertility of the soil.

6. *Animal Nutrition.*—Chief constituents of the animal body—respiration—digestion—influence of diet on the growth and health of animals—laws of flesh and fat production, and relation of food to work—nutrient ratio as a guide to feeding—animal waste—relation of food to manure—external conditions affecting the health and growth of animals—preparation of fodder—analysis and investigation of feeding stuffs.

7. *Dairy Produce*.—Composition of milk—its physical characters—diseases and sophistications to which it is liable—characteristics of its ingredients—its analysis—butter and cheese—their composition, sophistication, and analysis—scientific aspects of dairy management.

#### VI. GEOLOGY.

PROFESSOR GEIKIE.

For Summer and Winter Courses, see under Pure Science.

#### VII. VETERINARY HYGIENE.

Lectures of recognised teachers of the subject.

#### VIII. AGRICULTURAL ENTOMOLOGY.

*Course of twenty Lectures and Laboratory Demonstrations.*

W. FREAM, LL.D., B.SC., *Steven Lecturer.*

*(Free to Present and Past Students of the Agriculture Class.)*

Position of Insects in the Animal Kingdom.

Morphology and physiology of Insects, particularly in so far as such knowledge is useful in baffling attacks of insect pests. Structural modifications of the mouth, legs, and wings.

Life-history of Insects.

General principle that where the life history involves a series or cycle of changes, the measures of suppression should be directed against the weakest link in the chain. Illustrations.

Methods of insect attack, and enormous losses consequent thereon. Incidentally:—(a) Stage in the life-history of the insect at which it becomes actively injurious. (b) Period in the growth of the crop when insect injury begins. (c) Organs of the plant which are attacked.

Methods of *prevention*, as distinguished from *remedy*.

*General* methods of prevention or remedy, as distinguished from *special*. The former are, in the main, agricultural. The latter usually involve the application of specific insecticides, or the subjection of the crop to treatment distinct from ordinary agricultural operations.

Insecticides : composition and properties of the more important. Methods of application. Fumigation.

Mechanical appliances for the distribution of insecticides.

Inter-relationship of economic entomology and systematic botany.

Natural enemies of insects ; particularly (*a*) insectivorous mammals and birds, (*b*) other insects, (*c*) parasites.

Classification of insects, directed especially to the means of identifying injurious insects in their several stages.

Characters of the natural orders of insects illustrated by genera which furnish destructive species.

Special discussion of the natural orders Coleoptera, Hymenoptera, Lepidoptera, Hemiptera, and Diptera.

Convenient groupings of insects—(*a*) According to crop attacked ; (*b*) According to mode of attack.

Detailed discussion of insects injurious to crops, to forest and fruit trees, and to live stock in Britain, with methods of prevention and remedy :—*inter alia*—Wireworms, weevils, turnip-flies, bark beetles, thrips, saw-flies, sirices, surface-caterpillars, winter moths, codlin-moths, goat-moths, leopard-moths, magpie-moths, cabbage butterflies, aphides, scale-insects, mangel-flies, cabbage-flies, onion-flies, Hessian flies, wheat-midges, gout-flies, frit-flies, celery-flies, leather-jackets, ox-warble-flies, sheep's-nostril flies, gad-flies, forest-flies, sheep-louse flies, &c. Other pests, outside the class Insecta :—as millepedes, arachnids, eel-worms. Present position of Agricultural Entomology in Britain, &c., and remarkable advances made during recent years.

The course is profusely illustrated by carefully prepared natural specimens, the characters of which are demonstrated by the Lecturer. The instruction is further facilitated by a unique set of special coloured diagrams, from the pencil of the late Miss Ormerod.

## IX. ECONOMIC SCIENCE AS APPLIED TO AGRICULTURE.

PROFESSOR NICHOLSON.

Lectures up to Christmas, see under Faculty of Arts.



## X. (a) FORESTRY.

COLONEL BAILEY, *Lecturer.*

Five days a week, at 10 A.M., during Winter.

1. *Principles of Sylviculture*.—On the general lines of Dr Schlich's "Manual of Forestry," vol. i.

2. *Formation and Tending of Woods*.—On the general lines of Dr Schlich's "Manual of Forestry," vol. ii.

3. *Protection of Standing Woods*.—Draining; fencing; cold winds and storms; fires; mammals and birds; insects; diseases; weeds; frost and drought; rain, hail, snow and rime; wounds.

4. *Timber*.—Its structure, characteristics, and identification; relative form and size of stem, branches and roots; physical properties; seasoning; defects and unsoundness; durability.

5. *Utilisation of Produce*.—Uses of wood; felling; conversion; measurement and sale; transport; harvesting of bark; fodder, fruits, and litter; impregnation; charcoal.

6. *Working Plans*.—General principles.

7. *Uses and Effects of Forests*.—Direct uses; indirect effects—effects on temperature and moisture, mechanical effects.

8. *Forestry in Scotland*.—General considerations; the financial question.

## X. (b) EXPERIMENTAL PHYSICS.

PROFESSOR MACGREGOR.

Full Laboratory Course, see under Faculty of Arts.

## X. (c) ENGINEERING.

PROFESSOR HUDSON-BEARE.

See Winter Course, under Graduation in Engineering.

## XI. ENGINEERING FIELD WORK.

PROFESSOR HUDSON-BEARE.

See Summer Course, under Graduation in Engineering.

# Graduation in Science.

## I.—PURE SCIENCE.

### REGULATIONS AND CURRICULA FOR DEGREES IN PURE SCIENCE.

*Candidates who began attendance on qualifying Science Classes before 1st October 1892, are referred to the CALENDAR for 1895-96 or previous Calendars.*

*N.B.—Figures within brackets refer to the Sections of Ordinance No. 12.*

[I.] Two Degrees in Science are conferred by the University of Edinburgh, viz.:—Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees are given in Pure Science and in Applied Science.

#### I.—PRELIMINARY EXAMINATION.

The Preliminary Examinations in General Education are held in the Examination Hall in the University, in autumn and spring. (Time-Table, pages 284 and 285.)

Candidates may obtain Schedules at the Matriculation Office on and after 9th September 1902 and on and after 16th February 1903. The Schedules must be completed and lodged along with the Fees not later than 18th September 1902 and 2nd March 1903 for the Autumn and Spring Examinations respectively.

Fee, 10s. 6d. for each appearance.

Candidates may pay the Fees personally, or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders* or by *Bank Drafts* crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh, but not by cheques on private accounts. When names are not entered and Fees paid, or a Pass to the Examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late entry fee of 10s. must be paid before the Candidate can be admitted to Examination. This fee will not be received after twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A Candidate must enter his Name and pay the Fee, or, when the Fee has been previously paid, obtain a Pass, for each periodical Examination at which he desires to appear.

[II.] 1. Candidates before entering on the Curriculum must, unless exempted, pass a Preliminary Examination in the following subjects:<sup>1</sup>—

(1) English.

<sup>1</sup> See section 5, and also additional Regulations of Joint Board of Examiners, page 458.

- (2) One of the following:—Latin, Greek, French, or German.
  - (3) Mathematics.
  - (4) One of the following:—Latin, Greek, French, or German (if not already taken), Italian, or such other language as the Senatus may approve,<sup>1</sup> Dynamics.
2. *English* includes Grammar and Composition, and the Outlines of Geography and British History, the standard being that presently adopted for the Higher Grade Leaving Certificate of the Scottish Education Department.
  3. *Latin* and *Greek* comprise grammatical questions, translations into English from Latin or Greek authors, not previously prescribed, and translations of plain passages or easy sentences from English into Latin or Greek. The standard is that presently adopted for the Lower Grade Leaving Certificate.
  4. *French*, *German*, and *Italian* comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors, not previously prescribed, and translations from English into French, German, or Italian. The standard is that presently adopted for the Higher Grade Leaving Certificate of the Scottish Education Department.
  5. *Mathematics*—A student, who, having passed the Arts Preliminary Examination, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, will not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science.
  6. Candidates may take Mathematics on the intermediate standard instead of on the higher standard,<sup>2</sup> provided they also take an additional modern language on the standard of the Preliminary Examination for Degrees in Medicine, as a fifth subject.
- Mathematics on the intermediate standard* comprises Mathematics on the lower standard—viz., (1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions; and also (a) Euclid; Book VI., Propositions 1-19, or Geometry equivalent thereto. (b) Algebra; Quadratic Equations, Ratio and Proportion. (c) The Trigonometry of Right-angled Triangles. No Candidate will be entitled to profess Mathematics, Natural

<sup>1</sup> Any Candidate who proposes to be examined in a language other than those above named, is required to apply to the Senatus for approval before 1st February or 1st July for the Spring and Autumn Examinations respectively.

<sup>2</sup> This does not apply to graduation in Engineering.

Philosophy, or Astronomy at the Final Science Examination, unless he has passed the Preliminary Examination in Mathematics on the higher standard.

*Mathematics on the higher standard* comprises Mathematics on the lower standard as above, and Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the solution of Triangles inclusive, and the use of Logarithmic Tables.

7. *Dynamics* includes Elementary Statics and Kinetics of Solids, Liquids, and Gases.
8. A Candidate must pass in all the required subjects at one or not more than two Examinations, provided that he may offer himself for re-examination, as often as may be necessary, to satisfy this condition.
9. A Degree in Arts (not being a Degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, after consultation with the Senatus, will exempt from the Preliminary Examination.
10. Attendance on any Science Class will not qualify for Graduation in Pure Science unless the whole Preliminary Examination has been previously passed.

#### BOARDS OF STUDIES, &c.

(Ordinance No. 12.)

[VI.] (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It shall be the duty of the Professor and Lecturer<sup>1</sup> annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be hereafter constituted in each University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes

<sup>1</sup> This applies to all Extra-mural Teachers in Edinburgh whose Courses have been recognised.

during the next Academical Year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

[VII]. The provisions of the preceding section shall not apply to approved Institutions or recognised teachers outside the Town in which the University is situated; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

(*Ordinance No. 42.*)

II. The Commissioners statute and ordain as follows:—

(1) For the better carrying out of the purposes of Section VI., Sub-sections 1, 2, and 3, of Ordinance No. 12 [General No. 7—Regulations for Degrees in Science], the Senatus Academicus shall institute a Board or Boards of Studies consisting of Professors in the Faculty of Science, together with such Professors in other Faculties whose subjects qualify for graduation in Science, and such of the Lecturers in the University appointed under the provisions of Ordinance No. 17 [General No. 10—Regulations as to Assistants and Lecturers] as the Senatus may from time to time select.

(2) The Senatus shall appoint one of the members of such Board or Boards to be Convener thereof.

(3) It shall be the duty of such Board or Boards of Studies to consider the matters specified in the said Section VI., Sub-sections 1 and 2, of the said Ordinance, and to report their opinion on the same to the Faculty of Science for consideration before transmission by the Faculty to the Senatus.

(4) In carrying out the duty imposed upon them by the said Section 1 VI., Sub-section 3, of the said Ordinance, the Professors and Lecturers shall submit the schemes therein mentioned to the Board or Boards of Studies, by whom the same shall be transmitted to the Faculty of Science, who shall submit them to the Senatus Academicus, with such observations as they may think fit to make thereon.

II.—DEGREE OF B.SC. IN PURE SCIENCE.

[III.]<sup>2</sup> 1. Candidates for the Degree of B.Sc. must, in the course of not less than three Academical years (*i.e.* three Winter Sessions, or two Winter Sessions, and three Summer Sessions), attend at least seven courses of instruction in the subjects included in the Science Examination which they purpose to undergo.

2. Three of these Courses must be in subjects prescribed for the First Science Examination, and four must be in subjects prescribed for the Final Science Examination.

[IV.] 3. Four of the seven Courses must be taken in the University of

<sup>1</sup> See footnote, page 251.

<sup>2</sup> Figures within brackets refer to the Sections of Ordinance No. 12.

Edinburgh. The remaining three Courses may be taken at this University or at other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of Graduation in Science, provided that the fees for attendance at an approved Institution or under a recognised teacher in Edinburgh, shall in all cases not be less than the fees exigible for the corresponding Courses in the University of Edinburgh.<sup>1</sup>

- [v.] 4. Every Candidate for a Degree in Science must produce his Matriculation Ticket for the year in which he appears for Examination or Graduation.
- 5. All Candidates, not Matriculated Students of this University, availing themselves of the permission to attend Lectures at approved Institutions or by recognised teachers in Edinburgh, must, at the commencement of each year of such attendance, enrol their names at the Matriculation Office, paying a fee of the same amount as the Matriculation Fee, and having, in respect of such payment, a right to the use of the University Library.
- [xvii.] 6. A Student who before October 1892 has completed a part of his course of study with a view to Graduation in Science under regulations in force at the time in this University, and shall thereafter complete his course of study and pass the necessary Examinations in conformity with such regulations, or with those now in force, may become a Candidate for the Degree of B.Sc.
- 7. Candidates for Graduation who have previously passed the Examinations are required to intimate to the Clerk to the Senatus their intention to graduate, and pay the Registration fee at least ten days before the date of Graduation. Those whose Examinations are not then completed are required to give such intimation at the earliest possible date, and at latest one clear day before the day of Graduation.

#### UNIVERSITIES AND INSTITUTIONS AT PRESENT RECOGNISED IN TERMS OF REGULATION II. 3.

The Universities of St Andrews, Glasgow, Aberdeen, Oxford, Cambridge, Dublin, and Victoria University, Manchester. Heriot-Watt College:—Mathematics qualifying for First Science Examination; Mechanics and Physics, as equivalent to one course in Natural Philosophy, qualifying for the first B.Sc. examination in Pure Science, Engineering, and Agriculture; Chemistry and Chemical Laboratory, as qualifying for the first and final B.Sc. examination; Electricity (Pure and Applied), Engineering Lectures and Drawing, Laboratory Practice (Mechanical or Electrical), as qualifying for the degree of

<sup>1</sup> Only Institutions and Teachers with the necessary staff and appliances for Theoretical and Practical Instruction in Science will be recognised by the University. A List of Universities, Institutions and Teachers at present recognised in terms of this regulation is given on this and the following page.



B.Sc. in Engineering. The Glasgow and West of Scotland Technical College; University College, Dundee; University College, London; King's College, London; The Royal Colleges of Science, South Kensington; The Owens College, Manchester; The Mason College, Birmingham; The College of Science, Newcastle-on-Tyne; The Yorkshire College of Science, Leeds; University College, Bristol; University College, Liverpool; The Firth College, Sheffield; University College, Nottingham; The University College of North Wales, Bangor; University College of Wales, Aberystwyth; The University College of South Wales and Monmouthshire; The Engineering College, Cooper's Hill. The Queen's College, Belfast; The Queen's College, Cork; The Queen's College, Galway; The College of Science, Stephen's Green, Dublin; The School of Mines, Dublin; The Royal Agricultural College, Cirencester; The College of Agriculture, Downton; and the Veterinary Colleges of the United Kingdom; M'Gill University, Montreal; The University College of Toronto; Queen's University, Kingston, Ontario; The University of Sydney; The University of Melbourne; The University of Adelaide; Wellington College; The University of New Zealand; The University of Otago; Dalhousie College, Halifax, Nova Scotia; Stellenbosch College, South Africa; The University of Harvard; The University of Yale; The Johns Hopkins University; The Universities, and Polytechnic Schools supported and regulated or recognised by the governments of the respective Countries of Europe; Colleges affiliated (up to B.A. and B.Sc. Standards) to Universities of India; Engineering Colleges affiliated to the said Universities.

### 3. TEACHERS RECOGNISED UNDER REGULATION II. 3.

A. P. Aitken, D.Sc. (Chemistry), 19th June 1899; R. Turnbull, D.Sc. (Botany), 19th June 1899; W. Ivison Macadam (Chemistry and Practical Chemistry), 17th June 1901.

## EXAMINATIONS.

### DEGREE OF BACHELOR OF SCIENCE.

For the Degree of B.Sc. there are two Examinations, conducted by written questions, as well as orally and practically.

#### (a) *First Science Examination.*

[VIII.] 1. The First Examination for the Degree of B.Sc. is as to the general knowledge of the Candidate on the following subjects:—

- (i.) Mathematics, or Biology (*i.e.* Zoology and Botany, Lectures and Practical Work).
- (ii.) Natural Philosophy.
- (iii.) Chemistry, with Practical Chemistry.<sup>1</sup>

<sup>1</sup> Students who intend to take Chemistry as one of the subjects in the Final Examination are recommended to take a half-day course for three months in the Chemical Laboratory, instead of attending the Class of Practical Chemistry.



2. The Examination in these subjects is the same as for the ordinary degree of Master of Arts. [The First Professional Examination (Medicine) in Zoology and Botany is not accepted as equivalent.]

3. Candidates may present themselves in any one or more of these subjects at any Examination held after they have attended a full course in the subject or subjects professed.

*(b) Final Science Examination.*

[IX.] 1. The Final B.Sc. Examination is on a higher standard in any three or more of the following subjects :—

- (1) Mathematics.
- (2) Natural Philosophy.
- (3) Astronomy.
- (4) Chemistry.
- (5) Human Anatomy, including Anthropology.
- (6) Physiology, including Histology and Physiological Chemistry.
- (7) Geology, including Mineralogy.
- (8) Zoology, including Comparative Anatomy.
- (9) Botany, including Vegetable Physiology.

2. The standard of this Examination is as nearly as possible equivalent to that of the Examination for the Degree of M.A. with Honours, where the subjects are different : and where the subjects are the same the examination is identical.

3. A subject already taken for the First Examination may be taken also for the Final Examination.

4. Candidates presenting themselves for the Final Examination must have attended four full courses of higher instruction, including practical or laboratory work, in the Subjects professed. [See below.]

5. The Final Science Examination cannot be taken sooner than one year after the Candidate has passed the First Science Examination.

[X.] If a student, before passing the Preliminary Examination has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for examination, on condition of his passing the full Preliminary Examination within such time as the Senatus may appoint.

[XI.] A Candidate for the degree of B.Sc. is not deemed to have attended a class as part of the curriculum for that degree unless he presents a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

[XII.] The Examiners for the degree of B.Sc. have power to report that a Candidate has passed with special distinction in one or more of the subjects professed by him : and in such case a Diploma is given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

COURSES FOR FINAL EXAMINATION IN PURE SCIENCE.<sup>1</sup>

In Mathematics and Natural Philosophy the Examination is the same as for Honours in Arts. In each of the other subjects professed, two written papers are set, namely, a *first* and a *second* paper; and the Practical and Oral Examinations also consist of *first* and *second* parts. The second part of the Examination is of a higher standard than the first. Candidates must pass the first section of the Examination (as well written as practical and oral) in all the subjects professed. They must also pass the second section in at least one of their subjects. The following Courses of Higher Instruction in this University, (1) Intermediate and (2) Advanced, qualify for the first and second stages of the Final Examination in Pure Science:—

1. Mathematics: (1) *Intermediate Course*, as for Honours in Arts. (2) *Advanced Course*, as for Honours in Arts.

2. Natural Philosophy: (1) *Intermediate Mathematical*, (2) *Advanced Mathematical*, *Advanced Experimental*, or *Special Laboratory Course*.

3. Astronomy: (1) *Intermediate Course*: Winter Lecture Course, including Practical work, (2) *Advanced Course* of Practical Instruction at the Observatory.

4. Chemistry: (1) *Intermediate Course*: One Winter Course, or two Summer Courses in the Laboratory, and a Lecture Course on Organic Chemistry. (2) *Advanced Course*: Further Laboratory Work and one additional Lecture Course.

5. Human Anatomy, including Anthropology: (1) *Intermediate Course*: Six months' Lectures on Systematic Anatomy (Winter Session), with six months' Practical Anatomy. (2) *Advanced Course*: Course of Anthropology.

6. Physiology: (1) *Intermediate Course*: Six months' Lecture Course (Winter Session) and Practical Work (Winter and Summer Session). (2) *Advanced Course*: Laboratory Work (Winter Session).

7. Geology, including Mineralogy: (1) *Intermediate Course*: Winter Lecture Course and Practical Class. (2) *Advanced Course*: Laboratory Work, or Advanced Lecture Course—either Petrology or Mineralogy and Crystallography.

8. Zoology, including Comparative Anatomy: (1) *Intermediate Course*: Six months' Course, including Lectures on Invertebrate Zoology, and on Embryology, with Laboratory Work. (2) *Advanced Course*: Six months' Course on the Morphology of the Invertebrata and Vertebrata, and Laboratory Work.

9. Botany, including Vegetable Physiology: (1) *Intermediate Course*: One Winter and One Summer Course in Laboratory. (2) *Advanced Course*: Laboratory Work, with one or more Lecture Courses.

*The Final Science Examinations must be completed within twelve months.*

<sup>1</sup> See footnote, page 253.

## DEGREE OF DOCTOR OF SCIENCE.

1. Graduates of this University who have held the Degree of B.Sc. for five years may offer themselves for the Degree of D.Sc. Candidates must profess one of the following branches of Science :—Mathematics ; Natural Philosophy ; Astronomy ; Chemistry ; Human Anatomy, including Anthropology ; Physiology, including Histology ; Geology, including Mineralogy ; Zoology, including Comparative Anatomy ; Botany, including Vegetable Physiology ; and in this they will be expected to show a thorough knowledge.

2. Masters of Arts of this University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by the present Regulations for Degrees in Arts, or under the Regulations previously in force in this University, may offer themselves for the degree of D.Sc. after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of B.Sc.

3. Research Students within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows, may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid, in that University ; provided—

(1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours in Mathematics and Natural Philosophy ; provided that Candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

4. All Candidates for the degree of D.Sc. shall present a Thesis or a published Memoir or Work, to be approved by the Senatus on the recommendation of the Faculty of Science ; provided that, if required by the Senatus, the Candidate shall also be bound to pass such

an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his Thesis, as may from time to time be determined. The Thesis shall be a record of original research undertaken by the Candidate, and shall be accompanied by a Declaration, signed by him, that the work has been done and the Thesis composed by himself.

The Thesis must be lodged with the *Dean of the Faculty of Science* and the fees paid on or before 1st December.

5. Notwithstanding and in supplement of the Regulations as to Examinations, the *Senatus Academicus* shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves for the degree of D.Sc., and the University Court shall, after consultation with the *Senatus Academicus*, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of *Senatus*.

6. The degree of D.Sc. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

7. The fee for examination for D.Sc. is £10, 10s.; for re-examination, £5, 5s.

#### REGULATIONS FOR SPECIAL STUDY AND RESEARCH AND FOR APPOINTMENT OF RESEARCH FELLOWS, &c., pp. 121-123.

##### REGULATIONS FOR THE GRADUATION OF WOMEN AND FOR THEIR INSTRUCTION.

###### EXCERPTS FROM ORDINANCE NO. 18 (GENERAL NO. 9).

1. It shall be in the power of the University Court to admit women to graduation.

2. The conditions for graduation shall be the same for women as for men, subject to the following modifications, which shall have effect until provision is made for the instruction of women in all subjects qualifying for graduation, in which provision is made for the instruction of men :—

Section 3 of the Regulations for Degrees in Science shall not be applicable to the graduation of women in Science, so long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, and it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of Graduation in Science: Provided always that

every candidate for graduation shall produce evidence of having satisfied the conditions with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University.

3. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

4. (1) Women who attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. (2) Women, who are candidates for graduation but not matriculated students, and who may attend classes in Edinburgh, under the provisions above set forth, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by students of the University; and having, in respect of such payment a right to the use of the Library of the University.

#### ADDITIONAL REGULATIONS BY THE UNIVERSITY COURT.

Any woman who has received the requisite instruction in Chemistry, Botany, and Zoology, in any other University or Institution already approved by the University with the view to the Graduation of men, or under any teacher already recognised with that view, or in the Medical College for Women, Chambers Street, Edinburgh, will—subject to the provisions of Ordinance<sup>1</sup> No. 18, General No. 9, Regulations for the Graduation of Women, &c.—be admitted to Examination in these subjects for Graduation in Science.

Women may attend within the University the advanced Courses in Botany and Zoology, and the advanced Lecture Courses in the Chemistry Department, qualifying for Graduation in Science.

#### OUTLINE OF EXAMINATIONS.

##### I.—FIRST EXAMINATION FOR B.SC. IN PURE SCIENCE.

###### (a 1) MATHEMATICS.

Arithmetic—Euclid, Books I., II., III., IV., VI., and XI., or their equivalent, with their application to Mensuration—Algebra, Trigonometry, Conic Sections, Geometrical and Analytical.

*Candidates must show sufficient knowledge in each of the subjects of Examination.*

<sup>1</sup> See Ordinance, Appendix to CALENDAR, 1892-93, page 51.

(a 2) ZOOLOGY.

(a) The General Principles of Biology.

(b) The distinctive characters of the Invertebrate groups, and the structure, habits, &c., of *Amœba*, *Paramœcium*, *Hydra*, *Lumbricus*, *Nereis*, *Hirudo*, *Anodon*, *Buccinum*, *Helix*, *Nephrops*, and *Periplaneta*.

(c) The distinctive characters of the Vertebrate groups, and the structure, habits, &c., of *Gadus*, *Raia*, *Rana*, *Columba*, and *Lepus*.

(d) A general knowledge of the Orders of Vertebrata.

(e) The outlines of the development of *Amphioxus*, *Scyllium*, *Rana*, *Gallus*, and *Lepus*, and of the characteristic larval forms of *Echinodermata*, *Crustacea*, *Annelida*, and *Mollusca*.

(f) The Geographical Distribution of Animals.

(a 2) BOTANY.

The characteristic features of the following groups and classes of the vegetable kingdoms :—

*Thallophyta* *Schizophyta*, *Algæ*, *Fungi* ; *Muscinæ* [*Hepaticæ*, *Musci*] ; *Pteridophyta* [*Filicinæ*, *Equisetinæ*, *Lycopodineæ*] ; *Phanerogamæ* [*Gymnospermæ*, *Angiospermæ* (*Monocotyledones*, *Dicotyledones*)].

The fundamental facts and principles of *Organography*, *Physiology*, and *Geographical Distribution*. The life-history of the following plants :—*Bacterium*, *Nostoc*, *Spirogyra*, *Saccharomyces*, *Mucor*, *Vaucheria*, *Agaricus*, *Collema*, *Puccinia*, *Claviceps*, *Eurotium*, *Marchantia*, *Fucus*, *Polysiphonia*, *Funaria*, *Aspidium*, *Equisetum*, *Selaginella*, *Pinus*, *Cycas*, *Scilla*, *Capsella*, *Helianthus*, *Ulmus*, *Quercus*.

The characters of plants belonging to the chief British natural orders of *Phanerogamæ*.

(b) NATURAL PHILOSOPHY.

Elementary Dynamics.

Experimental Physics.

*Candidates must show sufficient knowledge of both subjects.*

(c) CHEMISTRY.

Chemical changes as distinguished from physical changes. Elements ; compounds ; mixtures. Laws of chemical combination by weight and by volume. The Atomic theory. Atoms ; molecules. Avogadro's Hypothesis. Molecular weights of gaseous and volatile substances. Atomic weights. Law of Dulong and Petit. Chemical Notation—Symbols ; formulæ ; equations. Simple chemical calculations.

The non-metallic elements and their chief compounds ; especially



the compounds of oxygen, of hydrogen, and of chlorine with the other non-metals. The more important inorganic acids. The atmosphere. Combustion. Oxidation and reduction.

The following metallic elements and their chief compounds; especially those with oxygen, with chlorine, and with sulphur: Gold, platinum, silver, mercury, lead, antimony, tin, copper, bismuth, zinc, cadmium, iron, aluminium, chromium, manganese, barium, strontium, calcium, magnesium, potassium, sodium.

The following salts: the ammonium salts; the more important sulphates, sulphites, thiosulphates, nitrates, nitrites, carbonates, bromides, iodides, iodates, phosphates, borates, silicates.

The relations of bases, acids, and salts. Electrolysis. Quantivalence. The periodic law.

The metallurgy of silver, mercury, copper, lead, tin, zinc, iron (including cast iron and steel). Alloys, such as brass, bronze, solder, type-metal. Amalgams.

The manufacture of aluminium, magnesium, potassium, sodium, glass, porcelain, mortar, gunpowder, sulphuric acid, sodium carbonate and bicarbonate, caustic soda, bleaching powder and chlorates, white lead.

Classification of Carbon compounds. Marsh Gas and its Homologues. Chloroform. Methyl and Ethyl Alcohols and Ethers. Substituted ammonias and ammonium salts. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Acetylene, Oxalic Acid, Lactic Acid. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Distillation of Wood and of Coal. Benzene, Benzoic Acid, Phenol, Salicylic Acid, Oil of Bitter Almonds, Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea, Uric Acid.

## PRACTICAL EXAMINATION.

(a) Simple inorganic preparations on a small scale, especially such as involve the formation and decomposition of the commoner salts.

(b) The qualitative examination of single substances. The substances given for examination may be:—Salts in solution; solid salts soluble in water; carbonates, sulphides, and oxides, insoluble in water but soluble in acids; metals. The salts given are confined to those derived from the metals and salt radicals named in the following lists:—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Cadmium, Bismuth, Antimony (*Tartar Emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate,



Chromate, Orthophosphate, Arsenate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

(c) Acidimetry and Alkalimetry.

(For further information see the *Practical Chemistry Class Book* "Salts and their Reactions," published by James Thin.)

## II.—FINAL EXAMINATION.

### (a) MATHEMATICS.

Pure Geometry, Algebra, Theory of Equations, including Determinants, Trigonometry (Plane and Spherical), Analytical Geometry, Differential and Integral Calculus, Calculus of Finite Differences. (The Candidate may, if he please, profess the Elements of Quaternion Analysis.)

### (b) NATURAL PHILOSOPHY.

Analytical Dynamics and Thermodynamics, with at least two other branches of Mathematical Physics (such as Advanced Dynamics, Electrostatics, Electrodynamics, Physical Applications of Vector Analysis, Wave Theory of Light, &c.), or with at least one such branch and one branch of Experimental Physics (such as Heat, Light, Electricity, &c.) in which the Candidate shall have submitted to the Examiners a report approved by them, embodying the results of an original investigation.

### (c) ASTRONOMY.

1. The Principles and Practice of astronomically finding the geographical co-ordinates of the place of observation on land and at sea.
2. The Principles that guide the actual determination of the chief astronomical constants—*refraction, aberration, nutation, precession, and solar-parallax* in fixed observatories.
3. The methods used for determining the figure and size of the earth.

The Candidate will be required to explain the general principles on which the orbits of planets, etc., are calculated, and must show a thorough knowledge of the methods followed in the case either of a *comet, planet, double-star, or of a meteorite and a meteoric swarm.*

One group of observations must have been made in the field, or at an observatory, and fully reduced so as to show the value of the derived results, and the precautions that have been taken to free them from instrumental and personal errors. Candidates will also be examined as to the best ways of testing the critical parts of instruments, such as a *pivot, screw, level, &c.*

### (d) CHEMISTRY.

Written and Oral Examinations:—Inorganic Chemistry, including Mineralogical Chemistry; Organic Chemistry; Chemical Crystallography; History of Chemistry.

In the written papers a choice of questions is allowed, so as to adapt the examination to the various courses of advanced study which Candidates may have selected.

Practical Examination :—*Intermediate*: Complex qualitative Analysis; Inorganic preparations; Gravimetric and Volumetric Analysis.

Each Candidate taking the higher standard will also be examined on Organic Preparations, Ultimate Organic Analysis, and one of the following subjects, selected by himself:—Gas Analysis; Assaying; Physico-chemical measurements.

#### (e) HUMAN ANATOMY, INCLUDING ANTHROPOLOGY.

Candidates are required to show a competent knowledge of the development of the human body and of its parts and organs; also the position and general arrangement of the different "systems" of organs which enter into its construction, and the structure both of these organs and of the simple tissues. A special knowledge of the locomotory apparatus and of the nervous and vascular systems will be required. An acquaintance with the technical applications of human anatomy to the practice of Medicine and Surgery is not asked for.

The Anthropological part of the subject will embrace a knowledge of race characters as found in the skull and other parts of the skeleton, in the skin, eyes, hair, features, and the external configuration of the body generally. The methods of anthropometrical measurement both of the living body and of the skeleton should be known. The possible influence of use and of external surroundings in producing modifications in the physical characters of man will require attention. An acquaintance with the "types" of mankind and the structural relations of man to the higher mammals will also be expected.

#### (f) ANIMAL PHYSIOLOGY.

*(Written and Practical Examinations.)*

The minute Structure, Chemical Composition, and Functions of the Tissues and Organs of the Animal Body.

The Chemical Composition and Products of the Foods and Fluids involved in the Processes of Nutrition and Secretion.

In the Practical Examination Candidates may be examined orally on any of the above subjects, and will be required to show a practical acquaintance with the methods employed in Histology, Physiological Chemistry, and Experimental Physiology.

#### (g) GEOLOGY, INCLUDING MINERALOGY.

1. *Dynamical Geology*.—The nature and operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy*.—Physical and Chemical characters of the more

important and typical species in the various mineral groups—more especially the rock-forming minerals and ores.

3. *Petrography*.—Megascopic and Microscopic Characters, Composition, Origin and Distribution of Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Foliation, Metamorphism, Faults, Overlap, Unconformity.

5. *Palæontological Geology*.—Characters, and distribution in time, of the more important Genera and Orders, especially those found fossil in Britain.

6. *Stratigraphical Geology*.—The History of the Geological Systems—more especially those of the British Islands.

7. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.

#### (h) ZOOLOGY, INCLUDING COMPARATIVE ANATOMY.

1. The Systematic Zoology of the Invertebrate and Vertebrate groups.

2. The Elements of the Comparative Anatomy and Development of the Invertebrata and Vertebrata.

3. The Principles of Natural Selection, a Knowledge of the Geographical Distribution of Vertebrate Animals.

The following books are recommended:—Haswell and Parker's "Zoology"; Lang's "Text-Book of Comparative Anatomy"; Huxley's "Vertebrata"; Flower and Lyddeker's "Mammalia"; Vogt and Yung's "Practical Zootomy" (German or French edition); Darwin's "Origin of Species"; Wallace's "Darwinism" and "Island Life"; Marshall's "Embryology."

#### (i) BOTANY, INCLUDING VEGETABLE PHYSIOLOGY.

1. Organography and Physiology of Plants.

2. The Principles of Plant Classification, and the Systematic Characters of the chief Families of Plants, including the Life Histories of Representative Types.

3. The chief facts of Geographical Distribution, and the explanation of these.

4. The chief facts of Vegetable Palæontology, and their bearing on the Theory of Descent.

## II.—ENGINEERING.

### REGULATIONS AND CURRICULUM FOR DEGREES IN ENGINEERING.

*Candidates who began attendance on qualifying Science Classes before 1st October 1893, are referred to CALENDAR 1895-96 or previous CALENDARS.*

I. Two degrees in Science in Engineering are conferred by the University of Edinburgh—viz., Bachelor of Science in Engineering and Doctor of Science in Engineering.

I.—PRELIMINARY EXAMINATION FOR BACHELOR OF SCIENCE.

II. Every candidate for the degree of B.Sc. in Engineering must pass the Preliminary Examination<sup>1</sup> prescribed for Degrees in Pure Science, and the conditions with respect thereto imposed by the Regulations for Degrees in Pure Science are applicable in all respects to Degrees in Engineering except as follows—viz., Mathematics must be passed on the Higher Standard and the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

II.—COURSES OF INSTRUCTION.

III. (1) Candidates must, in the course of not less than three Academical years (*i.e.* three Winter Sessions, or two Winter Sessions and three Summer Sessions), attend at least the eleven courses of instruction prescribed under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the necessary courses in Engineering, except where the University Court, after consultation with the Senatus, sees fit to allow one of the courses in Engineering to be taken outside the University under the provisions of the next sub-section.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering :<sup>2</sup> Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there are not less than the fees exigible for the corresponding courses in the University of Edinburgh.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Edinburgh to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors<sup>3</sup> and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures,

<sup>1</sup> See pages 249-251.

<sup>2</sup> See footnote, page 253.

<sup>3</sup> See Boards of Studies, page 251.

practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors<sup>1</sup> and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, syllabuses of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science transmits such syllabuses, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh.

VIII. The subjects of study are as follows :—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory or in the Chemical Laboratory, or of Practical Chemistry.
- 5, 6. Two Courses in Practical work in Drawing.
- 7, 8, 9. Three Courses in Engineering, including Engineering Laboratory Practice, and Field Work.
10. Natural Philosophy, involving Higher Mathematics.
11. One of the following :—
  - (a) Engineering Laboratory Practice, Mechanical or Electrical (Special Course).
  - (b) Electricity—Pure and Applied.
  - (c) Geology and Mineralogy.

### III.—SCIENCE EXAMINATIONS.

#### (a) *First Science Examination.*

IX. (1) There is a First Science Examination in the three following subjects, viz.:—(1) Mathematics, (2) Natural Philosophy, (3) Chemistry including Practical Chemistry; and the examinations in Natural Philosophy, and in Chemistry are so far as possible practical.

The examination in Geometrical Drawing may be taken either at the First or at the Final Science Examination.

(2) The examination in Mathematics includes the higher branches of Mathematics specified under Mathematics in the Section immediately preceding; but it is optional to Candidates to pass the same examination in this subject as that required for the ordinary Degree of M.A.,

<sup>1</sup> See Boards of Studies, page 251.

provided that in that case they will be required, before graduation, to pass an examination in the remainder of the subject.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

The following Classes in the University qualify for the First Science Examination in Engineering :—

1. Mathematics—Intermediate Honours Class (Winter), or Advanced Class (Summer).
2. Natural Philosophy—As for Pure Science Degrees.
3. Chemistry—As for Pure Science Degrees.
4. Physical or Chemical Laboratories—A three months' Course in either.
5. Drawing—Class of Engineering Drawing during one Winter Session.

*(b) Final Science Examination.*

X. (1) There is a Final Science Examination in the remaining subjects specified in Section VIII. ; and, if required, in the higher branches of Mathematics as provided in Section IX., Sub-section 2.

(2) Candidates may present themselves in one or more of these subjects at any examination after they have passed the whole of the subjects in the First Science Examination and have attended the required courses in the subjects professed, provided that for this purpose subjects 5, 6, 7, 8, and 9, specified in Section VIII., shall form one subject.

XI. A candidate for the degree of B.Sc. in Engineering is not deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of B.Sc. in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him ; and in such a case a diploma is given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIII. It is competent to the University Court to modify from time to time the provisions as to the curriculum, in case such modification be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any branch of the said Science : Provided that in no case shall the number of full courses of study required be less than the number required for the degree of B.Sc. in Pure Science.

The following Classes in the University qualify for the Final Science Examination in Engineering :—



1. Drawing—Class of Engineering and Mechanical Drawing during one Winter Session.
2. Engineering—(a) The Junior and Senior Classes of Engineering during two Winter Sessions. (b) Class of Engineering Field-Work, held in Summer.
3. Engineering Laboratory, or Electricity (Pure and Applied), or Geology and Mineralogy—A three months' Course in either.

HERIOT WATT COLLEGE.—In accordance with an agreement entered into between the University Court and the Governors of George Heriot's Trust for the purpose of arranging a joint curriculum of study for the degree in Engineering Science, the following classes at the Heriot Watt College have been recognised by the University Court as qualifying for the First Science Examination and the Final Science Examination in Engineering.

*Mathematics* :—A two years' course qualifying for the First Science Examination up to the standard required for the ordinary degree of M.A. ; *Mechanics and Physics*, as equivalent to one course in Natural Philosophy ; *Chemistry and the Chemical Laboratory* ; *Electricity pure and applied* including lectures and laboratory practice ; *Engineering* :—Lectures, Mechanical Drawing and Laboratory practice.

#### IV.—DOCTORATE OF SCIENCE IN ENGINEERING.

XIV. Graduates of the University of Edinburgh who have held the degree of B.Sc. in Engineering for five years, may offer themselves for the degree of D.Sc. in Engineering.

XV. A candidate for the degree of D.Sc.<sup>1</sup> in Engineering must present a Thesis, or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science: Provided that, if required by the Senatus, the candidate must pass such examination as may be determined. The Thesis must be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and must be accompanied by a declaration, signed by him, that these conditions have been satisfied.

#### GENERAL.

XVI. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degrees of B.Sc. in Engineering and D.Sc. in Engineering, as the case may be, on the payment of the fees required.

XVII. A student who, when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Engineering in the University of Edinburgh, under regulations in force at the time, and who thereafter completes his

<sup>1</sup> The Thesis must be lodged with the Dean of the Faculty on or before 1st December.



course of study and passes the necessary examinations in conformity with such regulations, or with the provisions hereof, may become a candidate for the degree of B.Sc. in Engineering.

XVIII. The degrees of B.Sc. and D.Sc. in Engineering are in no case conferred on persons who have not complied with the above conditions, and are not conferred *honoris causâ tantum*.

## OUTLINE OF SUBJECTS OF EXAMINATION.

### FIRST BACHELOR OF SCIENCE EXAMINATION.

1. MATHEMATICS—Two papers, one of two hours and one of three hours, to be taken at one time.<sup>1</sup> Subjects:—Mensuration; Trigonometrical Solution of plane triangles, involving the use of logarithmic tables (to be brought by the candidates). Curve-tracing; Elements of Cartesian and Polar Co-ordinates, including application to the analytical geometry of the straight line and the conic sections; Expansion of a determinant and elements of the theory of equations. Fundamental ideas of the Differential and Integral Calculus; Differentiation and Integration of Simple Functions; Geometrical Interpretation of Differentiation and Integration; Elementary application to plane curves, maxima and minima of functions of one variable, areas, volumes, centres of mass and moments of inertia; Simple Differential Equations.
2. NATURAL PHILOSOPHY.
3. CHEMISTRY—Same as for First Examination in Pure Science.

### SECOND BACHELOR OF SCIENCE EXAMINATIONS.

#### 1. (a) ENGINEERING—

*Field-Work*.—Surveying; Levelling; Setting out of Work; Calculation of Quantities.

*Properties of Materials*.—General Properties, with special knowledge of their Strength, and the Purposes to which they are applied, and some knowledge of their Cost.

*Strength and Stability of Structures designed by Civil Engineers*.—Metal and Timber Bridges and Roofs. Arches in Masonry. Walls. Retaining Walls. Embankments. Cuttings. Breakwaters. Aqueducts. Pipes. Canals.

*Strength and Form of the Elements of Machines*.

*Design of Combined Structures*.—An elementary knowledge of the Design of Bridges and Roofs, of Reservoirs, Embankments, collecting and distributing Machinery of Waterworks, and of the main features of Railway construction, Harbours, and Drainage.

*Design of Machinery*.—An elementary knowledge of the construction of the Steam Engine, stationary and locomotive, of Prime Movers

<sup>1</sup> A candidate who has passed the M.A. Examination in Mathematics is exempted from the first of these papers.

driven by Water, of Mill-wright work, and the general arrangement of Workshops and Factories.

*Prime Movers.*—Theory of Heat Engine. The Hot Air Engine. The Steam Engine. The Gas Engine. Turbines and Water Wheels. *Power Transmission*—Telodynamic, Hydraulic, Electric.

*Engineering Laboratory Practice.*

(b) DRAWING—

Candidates must exhibit a good knowledge of Geometrical Drawing, including the use of Graphics as applied in the solution of Engineering problems, and be able to represent neatly, in the usual manner employed by engineers, Plans and Sections of Buildings and Machinery, and also to make Engineering Sketches with figured dimensions from actual objects.

2. NATURAL PHILOSOPHY—

*Applied Mathematics, chiefly Dynamics.*

3. (a) ENGINEERING LABORATORY PRACTICE, MECHANICAL OR ELECTRICAL.

(b) ELECTRICITY—PURE AND APPLIED.

(c) GEOLOGY AND MINERALOGY—

*Dynamical Geology.*—Nature and Operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

*Mineralogy.*—Physical and Chemical characters of the more important and typical species in the various mineral groups—more especially the rock-forming minerals and ores.

*Petrography.*—Megascopic and Microscopic Characters, Composition, Origin and Distribution of Rocks.

*Structural Geology.*—Structure of Rock-Masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

*Physiographical Geology.*—Origin of the present outlines of the Earth's surface.

*Engineering Geology.*—The Applications of the Science to various Engineering Operations.

### DOCTOR OF SCIENCE EXAMINATION.

A Candidate for this Degree will be required to offer a thesis or published memoir affording evidence of original work, and may also be required to pass a Special Examination. See page 268.

## III.—PUBLIC HEALTH.

### IV. REGULATIONS AND CURRICULUM FOR DEGREES IN PUBLIC HEALTH.

*Candidates who commenced attendance on qualifying Science Classes before 1st October 1894 are referred to the CALENDAR for 1895-96, or to previous CALENDARS.*

I. Two degrees in Science in Public Health are conferred by the University of Edinburgh, viz., Bachelor of Science in Public Health and Doctor of Science in Public Health.

I.—BACHELOR OF SCIENCE.

II. Candidates for the degree of B.Sc. in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Edinburgh.<sup>1</sup>

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

(A)—*First Examination.*

IV. Candidates for the degree of B.Sc. in Public Health, before proceeding to the first examination, must produce evidence (1) that, after their graduation in Medicine, they have worked for at least twenty hours per week during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Edinburgh, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court;<sup>2</sup> and (2) that they have attended in the University of Edinburgh or any other Scottish University, in addition to the course of lectures in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary, and such a course of lectures in Geology, extending over not less than three months, as the Senatus with the like approval shall deem sufficient and appropriate.

The Courses in this University which at present qualify are the Laboratory Course in Physics for Students in Public Health, and either the ordinary Winter Course or the Summer Course in Geology.

(B)—*Second Examination.*

V. Candidates for the degree of B.Sc. in Public Health are not admitted to the second examination for the degree sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed their first examination for the degree of

<sup>1</sup> *Universities specially recognised under this section*:—The University of Würzburg; McGill University, Montreal; University of Harvard, U.S.A., 14th Oct. 1899; Queen's College, Kingston, Ontario, Canada, 18th December 1899.

<sup>2</sup> *Public Health Laboratories and Teachers recognised under this section*:—

University, Birmingham, . . . . .	{ E. Percy F. Frankland, Ph.D., October 1894.
Liverpool School of Science and Technology, . . . . .	{ George Tate, Ph.D., 15 June 1891.
King's College, London, . . . . .	{ W. R. Smith, M.D., D.Sc., November 1891.
University of Aberdeen, . . . . .	{ Professor Matthew Hay, M.D., 15 February 1891.
Pasteur Institute, Paris, . . . . .	{ 22 October 1892.
University of Cambridge, . . . . .	{ 13 December 1897.

B.Sc. in Public Health, and they must have attended two separate courses in Public Health in the University of Edinburgh, or in any University of the United Kingdom, or any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical School or under such teacher as may be recognised or approved for the purpose by the University Court, each course consisting of forty lectures at least; one of these courses shall deal with Medicine and the other with Engineering, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

They must also give evidence (1) that for six months they have practically studied sanitary work under the Medical Officer of Health of a county or burgh or district, containing a population of not less than 25,000; (2) that they have had three months' clinical instruction regarding fevers and infectious diseases in a hospital recognised as suitable for the purpose by the University Court; and (3) that they have had three months' instruction in Mensuration and Drawing under a teacher recognised for the purpose by the University Court.

The lectures in this University which qualify are—(1) Advanced Course of Public Health and Sanitary Science by the Professor of Public Health; and (2) the course of instruction (Theoretical and Practical) in Sanitary Engineering and Building Construction by the Professor of Engineering, and the Class of Mensuration and Drawing by the Lecturer on Drawing.

VI. There is a first examination for the degree of B.Sc. in Public Health in (1) Laboratory Work, the examination being practical, written, and oral; (2) in Physics; and (3) in Geology, if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the candidate.

VII. There is a second examination, written, oral, and as far as possible practical, for the degree of B.Sc. in Public Health in the following subjects, included in the course of instruction in Public Health—viz. (1) Sanitation, (2) Sanitary Law, (3) Vital Statistics, and (4) Medicine in its bearings on Public Health, and the examinations in these subjects are taken at one time. The examination in Sanitation, provided for under this section, shall include Reports by the candidates on Dwellings, Workshops, Hospitals, and Sanitary Schemes generally.

VIII. The Board of Studies for the Faculty of Science<sup>1</sup> from time to time, with the approval of the Senatus, determines and announces the character of the instruction to be given in the Laboratory, and fixes the standard of the examinations.

IX. It is competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in

<sup>1</sup> See Boards of Studies, page 251.

Science in Public Health, in case such modification may be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

#### SCHEDULES OF THE SUBJECTS OF EXAMINATION.

##### LABORATORY WORK.

(1.) *Examination of Water.*—Physical Properties, Chemical Properties, Microscopical Appearances, Pollution of Potable Waters.

(2.) *Examination of Air.*—Temperature, Pressure, Humidity; Carbonic Acid, Ozone, Micro-organisms, Organic Matter, Noxious Emanations.

(3.) *Examination of Foods.*—Milk, Butter, Butterine, or Oleomargarine, Flour, Bread, Starchy foods, Sugar, Honey, Butcher meat, Fish, Vegetables.

(4.) *Examination of Beverages.*—Tea, Coffee, Cocoa, Alcoholic Beverages, Aërated Waters.

(5.) *Examination of Condiments.*—Salt, Pepper, Mustard, Vinegar, and Preserves; Examination of Lime Juice. Nutritive Value of Dietaries.

(6.) *Sewage.*—Examination of sewage and of effluents after treatment.

(7.) *Soils.*—Temperature, Humidity, Permeability, Chemical Composition, Gases of the Soil, Micro-organisms.

(8.) *Disinfectants and Deodorisers.*—Chemical Examination of the Materials, Determination of their comparative power.

(9.) *Building Materials.*—Chemical and Physical Properties.

(10.) *Clothing.*—Physical Properties of Clothing Materials.

(11.) *Bacteriology.*—Micro-organisms in relation to Epidemic and other Diseases. Culture and recognition of Pathogenic and Non-Pathogenic, Aerobic and Anaerobic, Micro-organisms.

##### PHYSICS.

(1.) *Properties of Solids and Fluids.*—Specific Gravity, Elasticity, Laws of Pressure, Surface Tension, Viscosity.

(2.) *Heat.*—Thermometers, Expansion, Hygrometry, Boiling-points, Specific Heat, Latent Heat.

(3.) *Light.*—Lenses, Refractive Indices, Photometry, Polarization, Spectrum Analysis.

(4.) *Electricity.*—Current Strength, Resistance, Electrolytic Resistance, Batteries, Galvanometers.

##### GEOLOGY.

(1.) *Dynamical Geology.*—The nature and operation of Geological agents:—The Atmosphere, Rain, Underground Water, Rivers, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

(2.) *Mineralogy and Petrology.*—Characters of the more common and widely-distributed minerals and rocks.

(3.) *Structural Geology.*—The structure of rock-masses, more especi-

ally Bedding, Inclination and Curvature Joints, Faults. Water-supply and Draining in connection with Geological Structure. Nature and Origin of Soils and Sub-Soils.

#### EPIDEMIOLOGY [MEDICINE IN ITS RELATION TO PUBLIC HEALTH].

The Causes of Endemic and Epidemic Diseases, as well as of Epizootics; of the Contagious or Infectious Diseases; and of those incidental to particular trades, or otherwise produced by the surroundings of the patient. Prophylaxis. Immunity. Vaccination against disease. Nature and Value of Vaccines.

#### SANITATION.

(1.) *Site, Environment, and Construction of Dwellings.*—Influence of Position, Aspect, and Climate; Meteorological and Geological Conditions; Soil and Drainage; Elements of Building Construction.

(2.) *Water Supply.*—Quantity per head; Relative Eligibility of available Sources of Supply; Estimation of yield; Methods of utilising various Sources of Supply; Storage, Subsidence, and Filtration; Distribution—(α) General, (β) Domestic; Causes, Detection, and Treatment of contaminated Supply.

(3.) *Air Supply.*—Quantity and Temperature, with knowledge of use of instruments employed in their Measurement; Causes and Detection of Impurities; Warming and Ventilation; Characteristics and Fitness of various methods in use.

(4.) *Excreta, Refuse, and Sewage.*—Character and Quantity of in (α) Urban, (β) Rural Districts—

A. Collection and Removal from (1) the Dwelling, (2) the Town or Village; Nature, Practical details, and maintenance of the several methods employed.

B. Disposal: (1) Sanitary, (2) Insanitary methods; Precipitation, Filtration, Irrigation, Discharge; General details of necessary works.

(5.) *General Structural and Mechanical Details of Sanitary Works.*—Character, Fitness, and Qualities of Materials (Brick, Cement, Earthenware, Iron, Lead); Design, setting out, and laying of Sewers; Plumbing and Iron-work.

(6.) *Hospitals.*—Principles of Design and Construction.

(7.) *Infectious and Epidemic Diseases.*—Origin, Modes of Propagation, and Means of Prevention; Epizootics.

(8.) *Disinfectants.*—Selection and application.

(9.) *Effects of Insanitary Conditions.*—Insufficient house accommodation, Vitiating of Air, Impure Water, Bad or insufficient Food.

(10.) *Unhealthy Occupations.*—Means of mitigating or removing their unhealthiness.

(11.) *Nuisances.*—Urban, Rural, and Domestic.

(12.) *Disposal of the Dead.*—Burial, Cremation.

*N.B.*—Candidates are required to be able to interpret plans sub-



mitted to them, and to illustrate their answers when necessary by sketches.

SANITARY LAW AND VITAL STATISTICS.

I. Sanitary Administration. Laws affecting Factories, Workshops, Mines, Common Lodging-houses, Removal of Refuse, Nuisances, Rivers Pollution, Alkali Works, Burial Grounds, Unwholesome Food, Adulteration of Food and Drugs. Sale of Poisons.

2. Methods of estimating Population. Death, Birth, and Marriage Rates. Mortality as affected by Age, Sex, and Occupation. Case Mortality. Life Tables.

NOTE.—In making calculations, the Candidate will be expected to understand the use of Logarithms, the Slide Rule, and Arithmometer.

II.—DOCTORATE OF SCIENCE.

X. Graduates who have held the degree of B.Sc. in Public Health from the University of Edinburgh for a term of five years may offer themselves for the degree of D.Sc. in Public Health in the said University.<sup>1</sup>

XI. Candidates for the degree of D.Sc. in Public Health must present a thesis, or a published memoir or works, to be approved by the Senatus, on the recommendation of the Faculty of Science, and are required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, may determine. [Candidates for D.Sc. in Public Health may appear for examination in any one of the departments of knowledge required for the degree of B.Sc. in Public Health. They are required to submit the subject in which they propose to be examined for approval at least two months before the date of the Examination.<sup>2</sup>]

The theses, or published memoirs or works, must be records of original research undertaken by the candidates, and must be accompanied by a declaration, signed by them, that the work has been done and the theses or memoirs composed by themselves.

GENERAL.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, are entitled to receive the degrees of B.Sc. in Public Health and D.Sc. in Public Health, as the case may be, on payment of the fees required.

XIII. Students who, at the time when these Regulations come into operation, have completed a part of their course of study with a view to graduation in Science in Public Health in the University of Edinburgh, under regulations in force at the time therein, and thereafter

<sup>1</sup> See also Regulations for Research Students taking D.Sc., Section 3, page 121.

<sup>2</sup> The Thesis must be lodged on or before 1st December, and the Subject of Examination must be submitted to the Dean before 20th January. The Examination will take place about the end of March.



completes the course of study and passes the necessary examinations in conformity with such regulations, or with the provisions hereof may become candidates for the degree of B.Sc. in Public Health.

XIV. The degrees of B.Sc. and D.Sc. in Public Health are in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and are not conferred *honoris causâ tantum*.

#### IV.—AGRICULTURE.

##### REGULATIONS AND CURRICULUM FOR GRADUATION IN AGRICULTURE.

*Candidates who began attendance on Qualifying Science Classes before 1st October 1893, are referred to CALENDAR 1895-96, or to previous CALENDARS.*

I. A degree of Bachelor of Science in Agriculture is conferred by the University of Edinburgh.

##### I. PRELIMINARY EXAMINATION.

II. Every candidate for the degree of B.Sc. in Agriculture must pass the Preliminary Examination<sup>1</sup> prescribed for Degrees in Pure Science; and the conditions imposed with respect thereto by the said Regulations are applicable in all respects to the Degree in Agriculture, except as follows:—The Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

##### COURSES OF INSTRUCTION.

III. (1) Candidates must, in the course of not less than three Academical years (*i.e.* three Winter Sessions, or two Winter Sessions and three Summer Sessions), attend at least eleven courses of instruction in subjects prescribed for examination under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full courses and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist,<sup>2</sup> and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the course in Agriculture and Rural Economy.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture:<sup>3</sup> Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there must not

<sup>1</sup> See pages 249-251.

<sup>2</sup> See Boards of Studies, page 251.

<sup>3</sup> See footnote, page 253.

be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work at a farm is required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.<sup>1</sup>

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses is to be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Edinburgh; but the University Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh, where such exist.

VIII. The subjects of study are as follows<sup>2</sup> :—

1. Mathematics, or Biology (*i.e.* Zoology and Botany).
2. Natural Philosophy.
3. Chemistry, including Practical Chemistry.
4. Agriculture and Rural Economy.
5. Agricultural Chemistry.
6. Geology.
7. Veterinary Hygiene.
8. Agricultural Entomology.
9. Economic Science as applied to Agriculture.
10. A course in one of the following :—(a) Forestry ; (b) Experimental Physics ; (c) Engineering.
11. Engineering Field Work.

<sup>1</sup> Residence and Practical work at a farm must be not less than twelve months.

<sup>2</sup> See footnote, page 253.

## II. SCIENCE EXAMINATIONS.

*(a) First Science Examination.*

IX. (1) There is a First Science Examination in the three following subjects—viz. (1) Mathematics, or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry, including Practical Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the degree of B.Sc. in Pure Science, as specified in the Regulations therefor.

The following courses in this University qualify for the First Science Examination in Agriculture:—

1. (1) Senior Mathematics of 100 Lectures, as for the degree in Pure Science, or (2) Biology (Zoology, Botany) as for Pure Science.

2. Natural Philosophy, as for Pure Science.

3. Chemistry, full course, including Practical Chemistry, as for Pure Science.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

*(b) Final Science Examination.*

X. (1) There is a Final Science Examination in the remaining subjects (4 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

The following courses qualify for the Final Science Examination in Agriculture:—

1. Agriculture and Rural Economy—Full course of about 100 Lectures and 10 Field Demonstrations.

2. Agricultural Chemistry—Full course (including Lectures and Practical Work) of about 100 hours.

3. Geology—Half-course of 25 Lectures, 10 Demonstrations in Laboratory, and 8 Field Demonstrations.

4. Veterinary Hygiene—Half-course of about 50 Lectures.

5. Agricultural Entomology—Half-course of about 20 hours.

6. Economic Science, as applied to Agriculture—Half-course of about 50 Lectures—the Political Economy Class in Arts till Christmas.

7. A course in one of the following:—

(a) Forestry—Full course of about 100 Lectures.

(b) Experimental Physics—Full Laboratory course of 100 hours.

(c) Engineering—Full course of about 100 hours.

8. Engineering Field Work:—Half-course, extending over three weeks, 75 hours—Lectures, Drawing Office, and Field.

XI. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special

cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every such case the Senatus reports to the University Court the reasons for the relaxation.

XII. A candidate for the degree of B.Sc. in Agriculture shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

#### GENERAL.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degree of B.Sc. in Agriculture, on payment of the fees required.

XIV. A student who, at the time when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Agriculture in the University of Edinburgh, under regulations in force at the time therein, and who thereafter completes his course of study and passes the necessary examinations in conformity with such regulations, or with the provisions of these Regulations, may become a candidate for the degree of B.Sc. in Agriculture.

XV. The degree of B.Sc. in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

### OUTLINE OF SUBJECTS OF EXAMINATION.

#### FIRST BACHELOR OF SCIENCE EXAMINATION.

1. (a) MATHEMATICS, or (b) BIOLOGY (*i.e.* ZOOLOGY and BOTANY).
2. NATURAL PHILOSOPHY.
3. CHEMISTRY, including Practical Chemistry.

The Examinations are the same as for the First B.Sc. in Pure Science.

#### FINAL BACHELOR OF SCIENCE EXAMINATION.

##### 1. AGRICULTURE AND RURAL ECONOMY : ITS SCIENTIFIC PRACTICE.

1. *Definition of Agriculture*.—Aid given by the Allied Sciences.
2. *Surface Geology*.—Formation and Classification of Soils—their Physical and Chemical Properties. Importance of Organic Nitrogen. Indications of good or bad Soils—the Methods of Management.

3. *Drainage and Cultivation.*—Practice and Advantages of Drainage—Irrigation—Wet-Warping—Mixing or Top-Dressing—Claying—Marling—Chalking—Liming—Paring and Burning—Clay-Burning. The Effect on Soils of Cultivation and the Growth of Plants.

4. *Implements and Machines of the Farm.*—The Importance of their proper Construction and Careful Management.

5. *Steam Cultivation.*—Its Advantages and Disadvantages—Development of the “Darby” Land Digger.

6. *The Motive Powers Employed on the Farm.*—1st, Man; 2d, Horse; 3d, The Mechanical Powers (Water, Wind, and Steam)—their Comparative Values and Advantages.

7. *Farm Servants.*—Their Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.

8. *The Importance of Rotations.*—Different Rotations and reasons why they are adopted—Systems of Farming.

9. *Our Farm Crops* (Grain, Root, Forage, and Hay Crops).—Their Selection and Growth—Prevention of Insect Injuries and Diseases.

10. *Identification of Grasses and other Valuable Pasture Plants.*—Character and Habits of those of importance—Detection of Adulterations.—Regulations necessary to protect the Farmer in buying Seeds.

11. *The Management of Permanent Pasture.*—Proper Methods of making new Pasture—its After-treatment.

12. *Weeds in Pastures* and Means of Destroying them.

13. *Silage and the System of Ensilage.*—Its Advantages, &c.—Its Suitability and Unsuitability according to Locality.

14. *Manures.*—Farm-yard Manure—its proper Mixing, Storing, and Application—its great advantage as a General Manure. Special Manures and so-called Artificials—their Uses, Abuses, and Adulterations—the proper Times and Methods of their Application. The Value and Use of Liquid Manure and Town Sewage.

15. *Buildings and Fences.*—The proper Construction of Fences—the General Arrangement of Farm-Buildings—the best Flooring and Inside Plans and Dimensions of Byres, Cattle-Sheds, Stables, &c.—Covered Yards—Ventilation—Drainage of Houses and Farm-yards.

16. *Live-Stock, embracing Cattle, Pigs, Horses, Sheep.*—The Various Breeds of each, and suitability of some to Local Conditions—“The Principles of Breeding.” Feeding and Management—Cost of Feeding—Proper Mixtures of Food to Use. Cost of the Production of a Stone of Beef, Mutton, and Pork, showing the Amount of Profit in each Case.

17. *Dairying in all its Branches*, including the suitability or otherwise of surrounding Conditions—the proper Classes of Dairy Stock to keep, and their Management—the Treatment of Milk, and its Sale or Manufacture into Cheese, Butter, &c.

18. *Feeding Stuffs.*—Suitability of the Common Food Substances to the Different Classes of Farm Stock—The Purchase, Storing, and Administration of the same—their Manurial Residues.

## 2. AGRICULTURAL CHEMISTRY.

1. *Atmosphere*.—Relation of its Constituents and Conditions to Plant Life.

2. *Soils*.—Origin, Formation, Composition, Biology, Amelioration.

3. *Plants*.—Constituents, Germination, Nutrition, Maturation, Symbiosis.

4. *Manures*.—Nature, Uses, Application, Valuation, Compatibility, Exhaustion.

5. *Crops*.—Classification, Relation, Preservation, Uses as Fodder, Residual Value.

6. *Animal Nutrition*.—Nutritive Processes, Laws of Flesh and Fat Production, Digestibility of Fodders, Nutrient Ratio, Relation of Food to Work and to Manure.

7. *Dairy*.—Composition of Dairy Products, Circumstances affecting Quantity and Quality, Scientific Management.

Tests for the detection of Potassium, Sodium, Ammonium, Magnesium, Calcium, Aluminium, Iron, Arsenic, Antimony, Copper, Lead, Mercury.

Sulphate, Sulphite, Sulphide, Phosphate, Carbonate, Nitrate, Chloride, Acetate, Oxalate, Tartrate, Citrate.

Sugars, Starches, Fats, Proteids.

Chemical, Physical, and Microscopic Tests for Adulteration in Manures, Feeding Stuffs, and Dairy Produce.

Methods of determining amounts of Clay, Sand, Carbonates, Humus, and Moisture in Soils.

Phosphoric Acid, Potash, Nitrogen, Lime, Magnesia, Insoluble Matter and Moisture in Soils and Manures.

Albumen, Amides, Fat, Carbohydrates, Woody Fibre, and Ash in Fodders.

## 3. GEOLOGY.

(1) *Dynamical Geology*.—Nature and operation of Geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

(2) *Mineralogy*.—Physical and Chemical Characters of the more important and typical species in the various mineral groups—more especially the Rock-forming Minerals and Ores.

(3) *Petrography*.—Megascopic and Microscopic Characters, Composition, Origin and Distribution of Rocks.

(4) *Structural Geology*.—Structure of Rock-masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

(5) *Physiographical Geology*.—Origin of the present outlines of the Earth's Surface.

(6) *Agricultural Geology*.—Nature and Origin of Soils and Subsoils; Draining in connection with Geological Structure; Mineral substances used as Manures.



## 4. VETERINARY HYGIENE.

1. The Comparative Osteology (rudimentary) of the Horse, Ox, and Sheep.
2. The Physiology of Dentition in Horse, Ox, Sheep, and Pig, more especially as indicative of the Age of the Animal.
3. The Physiology of Gestation; the Diseases incidental to the pregnant state, and also those consequent to the act of parturition.
4. Description of the Digestive Organs of the Horse, Ox, and Sheep (separately), also their Physiology, and most ordinary Diseases.
5. Contagious and other Diseases of Farm Stock. Prevention and Treatment of Diseases.

## 5. AGRICULTURAL ENTOMOLOGY.

Insect pests of cultivated plants and of farm live stock. Methods of prevention of, and of remedy for, their attacks. Classification of insects, and details of their structure and life history, in so far as of economic importance.

## 6. ECONOMIC SCIENCE.

See Syllabus in Arts. First Half of Course.

## 7. (a) FORESTRY.

1. *Sylviculture*.—Atmosphere, Climate, and Soil, as affecting Forest Vegetation; shape and development of forest trees; pure and mixed woods; the sylvicultural systems; formation and tending of woods.
2. *Injuries to Standing Woods and their Protection*.—Winds and storms, fires, animals, fungi, weeds, frost, snow, drought, &c.
3. *Utilisation of Produce*.
4. *Structure, Classification, and Technical Properties of Timber*.
5. *Forest Organisation*.—The principles on which working plans are based.

## 7. (b) EXPERIMENTAL PHYSICS.

The Measurement of Physical Constants, such as—Gravitation, Specific Gravity, Specific Heat, Conductivity, Dilatation, Refractive Index, Magnetic and Electric Quantities, &c.

## 7. (c) ENGINEERING.

1. *Mechanics*.—(a) Principles of Statics; couples; moments of forces; parallel and inclined forces; centre of gravity; moments of inertia; friction, (b) Principles of Kinematics and Kinetics; Newton's laws of motion; Conservation and transformation of energy.

2. *Strength and Properties of Structural Materials*, including their fitness and adaptability, together with some knowledge of their cost.

3. *Strength and Stability of Structures*.—General knowledge of the design, construction, and maintenance of Roads, Roofs, Bridges, Embankments, Retaining Walls, Aqueducts, and General Buildings.

4. *Hydraulics*.—The laws governing the flow of water in open and closed channels, and its discharge through orifices ; Systems of Drainage and Irrigation ; Pumps, &c.

5. *Mechanism and Machinery*.—General Principles and means of transmission, conversion, and modification of motion ; general millwright work with special reference to the machines ordinarily employed for agricultural purposes.

6. *Prime Movers*.—A knowledge of the sources and modes of estimating power ; The Steam Engine ; Pneumatic Machines ; Hydraulic Motors, Water-wheels, Turbines, &c.

## 8. ENGINEERING FIELD WORK.

Surveying, with special reference to Estate and Parish Surveying, Levelling, Gauging of Streams and Rivers, Plotting of Surveys and Sections, Setting out of Work, and Calculation of Quantities.

## FEEs FOR EXAMINATIONS FOR DEGREES.

### 1. PRELIMINARY EXAMINATION.

The Fee is 10s. 6d. for each appearance.

### 2. FEES FOR EXAMINATIONS OR FOR REGISTERING EQUIVALENTS.

#### (1) *Pure Science and Engineering*.—

First B.Sc. Examination,	£3 3 0
(or for each subject, £1, 1s.)	
Second B.Sc. Examination,	3 3 0
Doctor of Science,	10 10 0
	<hr/> £16 16 0

#### (2) *Public Health*.—

First B.Sc. Examination,	£3 3 0
Second B.Sc. Examination,	3 3 0
For the Degree of Doctor,	10 10 0
	<hr/> £16 16 0

#### (3) *Agriculture*.—

First B.Sc. Examination,	£3 3 0
(or for each subject, £1, 1s.)	
Second B.Sc. Examination,	3 3 0
	<hr/> £6 6 0

Candidates for the Degree of B.Sc. who fail to pass pay a fee of 10s. 6d. for re-examination in each subject, and Candidates for D.Sc. pay a fee of £5, 5s. for each re-examination.

Every Candidate for Graduation must pay the Fee of £1 for Registration as a Member of the General Council of the University, at least one clear day before the date of Graduation.

All communications relating to the Curriculum and Examinations for Degrees, Fellowships, Scholarships, &c., in Science should be addressed to *The Dean of the Faculty of Science*, University, Edinburgh.

All Examination, Matriculation, and Registration Fees are payable at the *Matriculation Office*, University. Candidates may pay the Fees personally, or transmit them to T. GILBERT, by *Post Office*, or *Postal Orders*, or by *Bank Drafts*, crossed "Union Bank of Scotland (Hunter Square Branch), Edinburgh," but not by cheques on private accounts.

## TIME-TABLE OF EXAMINATIONS AND DATES FOR PRESENTING CERTIFICATES AND PAYMENT OF FEES.<sup>1</sup>

*Candidates are required to enter for each periodical examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.*

The dates of the Examinations for 1902-1903 have been fixed as follows:—

### PRELIMINARY EXAMINATION.<sup>1</sup>

1902.		
Sept. 18.	Th.	Names to be given in, and Fees paid, <i>on or before</i> this date.
,, 26.	Fri.	English, 1st paper, 9-11; Higher Latin, 1st paper, 12-2; Lower Latin, 3-6.
,, 27.	Sat.	English, 2nd paper, 9-11; Intermediate and Higher Mathematics, 1st paper, 12-2; Lower Greek, 3-6.
,, 29.	Mon.	Higher Latin, 2nd paper, 9-11; Intermediate and Higher Mathematics, 12-2.

<sup>1</sup> When names are not entered, nor fees paid, on or before the stated dates, or a Pass obtained where the fee has been previously paid, a late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination. This fee will not be received after Twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A Candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a Pass, for each periodical Examination at which he desires to appear. A Candidate is not held to be entered until his Schedule is lodged, the Fee paid, and a Pass to the Examination obtained.

1902.			
Sept. 30.	Tu.	Higher Greek, 1st paper, 9-11 ; French, 1st paper, 12-1.30 ; Dynamics, 3-6.	
Oct. 1.	Wed.	Higher Greek, 2nd paper, 9-11 ; French, 2nd paper, 12-2 ; German, 1st paper, 3-4.30.	
„ 2.	Thur.	German, 2nd paper, 9-11 ; Italian, 12-1.30, 3-5.	
1903.			
Mar. 2.	Mon.	Names to be given in, and Fees paid, <i>on or before</i> this date.	
„ 27.	Fri.	English, 1st paper, 9-11 ; Higher Latin, 1st paper, 12-2 ; Lower Latin, 3-6.	
„ 28.	Sat.	English, 2nd paper, 9-11 ; Intermediate and Higher Mathematics, 1st paper, 12-2 ; Lower Greek, 3-6.	
„ 30.	Mon.	Higher Latin, 2nd paper, 9-11 ; Intermediate and Higher Mathematics, 2nd paper, 12-2.	
„ 31.	Tu.	Higher Greek, 1st paper, 9-11 ; French, 1st paper, 12-1.30 ; Dynamics, 3-6.	
April 1.	Wed.	Higher Greek, 2nd paper, 9-11 ; French, 2nd paper, 12-2 ; German, 1st paper, 3-4.30.	
„ 2.	Thur.	German, 2nd paper, 9-11 ; Italian, 12-1.30, 3-5.	

1902. FIRST SCIENCE EXAMINATION.<sup>1</sup>

Oct. 2.	Thur.	Names to be given in, Certificates shown, and Fees paid, <i>on or before</i> this date.
„ 9.	Thur.	Mathematics, 9-11, 11.30-1.30 ; Natural Philosophy, 2.30-4.30.
„ 10.	Fri.	Natural Philosophy, 9-11 ; Mathematics for Engineering, 11.30-1.30, 2.30-5.30.
„ 16.	Thur.	Zoology, 12-2 ; Botany, 2.30-4.30.

## 1903.

Mar. 3.	Tu.	Names to be given in, and Fees paid, <i>on or before</i> this date.
„ 20.	Fri.	Certificates to be examined from 10-3.
„ 23.	Mon.	Chemistry, 10-12 ; Practical Chemistry and Oral Examinations may begin ; Laboratory Work (Public Health), 10-12 ; Physics (Public Health), 1-3.
„ 24.	Tu.	Botany, 10-12 ; Zoology, 1-3 ; Geology (Public Health), 1-3.
„ 25.	Wed.	Practical Work in Public Health Laboratory begins. Oral Examinations in Chemistry, Botany, and Zoology begins.

<sup>1</sup> See footnote, page 284.

1903.		
Mar.	28.	Sat. Mathematics, 12-2.
„	30.	Mon. Mathematics, 12-2 ; Drawing (Engineering), 9-12.
April	3.	Fri. Natural Philosophy, 9-11, 11.30-1.30.
July	3.	Fri. Names to be given in, and Fees paid, <i>on or before</i> this date.
„	15.	Wed. Certificates to be examined from 10-3.
„	17.	Fri. Chemistry, 10-12 ; Practical Chemistry and Oral Examinations may begin ; Geology (Public Health), 1-3 ; Laboratory Work (Public Health), 10-12 ; Physics (Public Health), 1-3.
„	20.	Mon. Practical Work in Public Health Laboratory begins.

FINAL SCIENCE EXAMINATION.<sup>1</sup>

1902.		
Oct.	2.	Thur. Names to be given in, Certificates shown, and Fees paid, <i>on or before</i> this date.
„	16.	Thur. Zoology, 10-1 (1st paper), 2-5 (2nd paper) ; Practical Examination at time to be arranged.
1903.		
Mar.	3.	Tu. Names to be given in, and Fees paid, <i>on or before</i> this date.
„	19.	Thur. Economic Science (Agriculture), 5-7. Certificates to be examined.
„	24.	Tu. Botany, 9-12 (1st paper), 1-3 (2nd paper) ; Pract. Exam. at time to be arranged ; Vet. Hygiene, 1-3.
„	25.	Wed. Medicine (Public Health), 10-12 ; Sanitary Law, 1-3 ; Vital Statistics, 4-6.
„	26.	Thur. Sanitation, 10-12, 1-4. Oral and Pract. Exam. at times to be arranged. Geology (Agric. and Engineering), 1-3.
„	27.	Fri. Physiology, 9-12 (1st paper), 1-3 (2nd paper) ; Practical Examination at time to be arranged. Astronomy, 9-12 (1st paper), 1-3 (2nd paper). Agriculture, 9-12 ; Agricultural Chemistry, 1-3 ; Practical Examination in Agricultural Chemistry, at time to be arranged.
„	31.	Tu. Mathematics, 9-12 ; Engineering, 9-12, 2-5.
April	1.	Wed. Mathematics, 9-12, 2-5 ; Engineering, 9-12 ; Engineering Field-Work (Agriculture), 2-5 ; Dynamics (Engineering), 2-5.

<sup>1</sup> See footnote, page 284.

1903.

- April 2. Thur. Mathematics, 9-12; Natural Philosophy, 2-5; Engineering, 9-12; Engineering (Agriculture), 9-12; Experimental Physics (Agriculture), 3-5.
- „ 3. Fri. Natural Philosophy, 9-12, 2-5; Experimental Physics, 9-12; Agricultural Entomology, 9-11; Forestry, 11.30-1-30; Drawing (Engineering), 9-12, 2-5.
- July 3. Fri. Names to be given in, and Fees paid, *on or before* this date.
- „ 15. Wed. Certificates to be examined.
- „ 17. Fri. Chemistry, 9-12 (1st paper), 1-3 (2nd paper); Practical Examination at time to be arranged.
- „ 18. Sat. Geology, 9-12 (1st paper), 1-3 (2nd paper); Practical Examination at time to be arranged.
20. Mon. Human Anatomy (including Anthropology), 9-12 (1st paper), 1-3 (2nd paper); Practical Examination at time to be arranged.

#### DOCTOR OF SCIENCE.<sup>1</sup>

D.Sc. Candidates are required to lodge their Theses and proof of their eligibility with the *Dean of the Faculty of Science* at the Matriculation Office, and to pay the Fees on or before 1st December.

Candidates for D.Sc. in Public Health are required to intimate the subjects in which they desire to be examined to the Dean before 20th January. The examination will take place about the end of March.

## Degrees in Science.

### DOCTORS OF SCIENCE.

The names of the Doctors of Science previously to 1889, will be found in the Historical Appendix to List of Graduates published in 1889, pp. 132-134. The following are the names of the Doctors from 1889 to 1902, both years included :—

#### IN PURE SCIENCE.

- |                                 |                                |
|---------------------------------|--------------------------------|
| 1889. Thomas Rhymer Marshall.   | 1891. Thomas Smith Murray.     |
| 1890. Alex. Crichton Mitchell.  | 1892. Jacques François Marais, |
| „ Hugh Marshall.                | B.A.                           |
| 1891. William Cossar Mackenzie. | 1893. John Shields.            |

<sup>1</sup> See footnote, page 284.



- |   |   |
|---|---|
| 1894. Malcolm Laurie, B.Sc.                       | 1899. George Coull, B.Sc.                         |
| „ Charles Hunter Stewart,<br>M.B., C.M., B.Sc.    | „ John Archibald Purves,<br>B.Sc.                 |
| 1895. Arthur Pillans Laurie, B.Sc.                | 1900. John Smith Flett, M.A.,<br>B.Sc. (Edin.).   |
| 1896. John Carruthers Beattie,<br>B.Sc.           | „ James Rymer Paterson,<br>B.Sc. (Edin.).         |
| „ John Charles Mitchell,<br>B.Sc.                 | 1901. Alexander Wilmer Duff,<br>M.A., B.Sc.       |
| 1897. Frederick Beddow, B.Sc.                     | „ Alfred Hay, B.Sc.                               |
| „ Alexander Morgan, M.A.,<br>B.Sc.                | „ John Edwin Mackenzie,<br>B.Sc.                  |
| „ Gregg Wilson, M.A.,<br>B.Sc.                    | „ John Vernon Rees Roberts,<br>M.D., B.Sc.        |
| 1898. Robert Stewart Mac-<br>Dougall, M.A., B.Sc. | „ James Young Simpson,<br>M.A., B.Sc. (Scotland). |
| „ Joseph Prokop Pražák,<br>Ph.D., D.Jur.          | „ William White Taylor,<br>M.A., B.Sc.            |
| 1899. John Henderson, B.Sc.                       | „ Samuel Walker, M.A.,<br>B.Sc.                   |
| „ Thomas Cleghorn Baillie,<br>M.A., B.Sc.         |   |

## IN ENGINEERING.

1898. John Thomas Nicolson.

12th April 1901.

Ernest George Coker, B.Sc. | Thomas Summers, B.Sc.

## IN PUBLIC HEALTH.

- |  |  |
|--|--|
| 1890. James Anderson, M.D.                         | 1894. Henry Halcro Johnston,<br>M.D.               |
| „ James Andrew Blair, M.B.                         | „ John Macmillan, M.A.,<br>M.B., C.M.              |
| „ William John Brock, M.B.                         | „ Charles Templeman, M.D.                          |
| „ John Stevenson, M.B.                             |  |
| 1892. Charles Henry Bedford,<br>M.D.               | 1898. Walter Holland Ogilvie,<br>M.B., C.M., B.Sc. |
| „ Robt. Wm. Dickinson Mac-<br>Martin Cameron, M.D. | „ Charles Hubert Bond,<br>M.D., B.Sc.              |
| „ Alex. C. Houston, M.B.,<br>C.M.                  | „ Charles Killick Millard,<br>M.D., B.Sc.          |
| „ William George Aitchison<br>Robertson, M.D.      | 1899. John Penny, M.B., C.M.,<br>B.Sc.             |
| 1893. Edward Henry Ezard, M.D.                     | 1900. Arthur Douglas Webster,<br>M.D., B.Sc.       |
| „ John Howard-Jones, M.B.                          | 1901. Charles James Lewis,<br>M.D., B.Sc.          |
| „ John Fred. Joseph Sykes,<br>M.B.                 |  |
| „ James Buchanan Young,<br>M.B.                    |  |

## Degrees Conferred in 1901-1902.

### THE DEGREE OF DOCTOR OF SCIENCE.

*27th July 1901.*

Alexander Wilmer Duff, M.A., B.Sc. *Thesis*—"The Attenuation of Sound.

John Vernon Rees Roberts, M.D., B.Sc. *Thesis*—"Variations in the Ossification of the Human Skull."

*11th April 1902.*

Bertram Prentice, B.Sc., Ph.D. *Thesis*—"The Constitution of Phenyl-dimethylpyrazolidone, and of Phenylmethylpyrazolidone."

### IN THE DEPARTMENT OF ENGINEERING.

*11th April 1902.*

John Lundie, B.Sc. *Thesis*—"The Economics of Electric Train Movement."

### THE DEGREE OF BACHELOR OF SCIENCE.

*27th July 1901.*

Edward Stafford Edie, M.A.

Robert Hamilton, M.A.

\* James Patrick Longstaff.

† Archibald Milne, M.A.

‡ John Tait.

Henry Walker, M.A.

*19th October 1901.*

Joseph Samuel Martyn, M.A.

\* Passed with Special Distinction in Chemistry.

† Passed with Special Distinction in Mathematics, Natural Philosophy, and Geology and Mineralogy.

‡ Passed with Special Distinction in Anatomy and Anthropology, and in Physiology.

11th April 1902.

\*Robert Duncan Bell, M.A.

George Stuart Clark, M.A.

†Alice Brown Lennie, M.A.

‡William Mackenzie, M.A.

‡Arthur Wilhelm Madsen.

Walter Glendinning Napier, M.A.

IN ENGINEERING.

19th October 1901.

Cyril Turner Walker

IN PUBLIC HEALTH.

27th July 1901.

Maung Ba-ket, M.B., C.M.

Duncan Forbes, M.D.

Frederick Gardiner, M.B., C.M.

IN AGRICULTURE.

27th July 1901.

Harold Cecil Long.

11th April 1902.

Duncan Silvestro Rabagliati.

Fred Smith.

## Fellowships, Scholarships, Bursaries, Prizes, &c., in Science.

### I.—FELLOWSHIPS.

*See note under Scholarships, page 185.*

#### I.—THE FALCONER MEMORIAL FELLOWSHIP.

This Fellowship was founded in 1869 by the Subscribers to the Fund for a Memorial to Hugh Falconer, M.D. (for many years Superintendent of the H. E. I. Company's Botanic Gardens at Suharunpoor

\* Passed with Special Distinction in Mathematics and Natural Philosophy.

† Passed with Special Distinction in Astronomy, and Geology and Mineralogy.

‡ Passed with Special Distinction in Physiology.

and Calcutta), and the Association for the better Endowment of the University, for the encouragement of the Study of Palæontology and Geology. It is of the annual value of £112, and is tenable for two years, but if the Senatus see fit, it may be held for three years, and with consent of the University Court, for four years. It is awarded after competitive examination in Natural History as applied to Palæontology and Geology, and is open to Graduates in Science or Medicine of this University of not more than three years' standing at the time of the competition. It cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. The Deed of Foundation will be found at p. 270 of the CALENDAR for 1870-71. The next appointment may be made in July 1904.

1901. No award.

## II.—GEORGE HERIOT'S RESEARCH FELLOWSHIPS.

For particulars apply to DAVID LEWIS, Treasurer, George Heriot's Trust, 20 York Place, Edinburgh; and see under Faculty of Arts.

1902. *E. H. Fraser, M.D.*; *Alan W. C. Menzies, B.Sc.*

## II.—SCHOLARSHIPS.

### I.—BAXTER PHYSICAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865, and is of the annual value of £76, 3s., tenable for two years. It is awarded, on the result of the Final Examination for the Degree of Bachelor of Science, to the student who is most distinguished in two or more of the Physical Science subjects—viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is required to satisfy the Senatus Academicus that he has been pursuing his studies in Science during the first year of his tenure in such a manner as the Senatus may fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of £100. Next vacancy in 1904.

1902.

### II.—BAXTER NATURAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865, and is of the annual value of £76, 3s., tenable for two years. It is awarded, on the result of the Final Examination for the Degree of Bachelor of Science, to the Student who is most distinguished in two or more of the Natural Science subjects—viz., Human Anatomy, including Anthropology; Physiology, including Histology; Geology, including Mineralogy; Zoology, including Comparative Anatomy; Botany, including Vegetable Histology, either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is

required to satisfy the *Senatus Academicus* that he has been pursuing his studies in Science during the first year of his tenure in such manner as the *Senatus* may fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of £100. Next vacancy in 1904.

1902.

### III.-VIII.—VANS DUNLOP SCHOLARSHIPS.

These Scholarships are each of the annual value of £100, and are tenable for three years. The following are the General Regulations :—

Competitors must have regularly attended at least one full Course or two Half-Courses in the University of Edinburgh during each Academic year in which they claim to have been Matriculated Students, and no Candidate is eligible who has discontinued attendance at the University of Edinburgh for more than one year. The years of Academic study count from the first year in which a Candidate has attended one of the classes qualifying for the degree of B.Sc.

Each Scholarship is tenable for three years, on condition that the scholar submits annually to the University evidence that he is prosecuting his studies or his professional work in a manner satisfactory to the *Senatus*. The evidence may consist of—(1) A certificate of attendance on lectures or laboratories approved by the *Senatus*; or (2) a certificate of having acted as an assistant to a Professor in this or some other University; or (3) a written report of his work done during the year, together with a Thesis composed by himself in connection with some part of that work.

Not more than one of these Scholarships can be held by the same person. Scholars cannot hold, along with their Scholarships, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the examinations may be published.

#### III.—MATHEMATICS.<sup>1</sup>

The next Competition will take place in April 1904.

#### IV.—NATURAL PHILOSOPHY.<sup>1</sup>

The next Competition will take place in April 1904.

#### V.—AGRICULTURE AND RURAL ECONOMY.

This Scholarship is open to all Matriculated Students who have regularly attended classes in this University for not less than two and not

<sup>1</sup> For particulars, see "Scholarships" in Faculty of Arts.

more than six years, and who have attended the Class of Agriculture and Rural Economy within one year of the date of Competition. The subjects of Examination are Agriculture, Chemistry, Botany, and Veterinary Science. The next Competition will take place in March 1904.

The Examiners are the Professor of Agriculture and an Examiner nominated by the Senatus.

1901. *William Bruce, B.Sc.*

#### VI.—CHEMISTRY.

(1.) The subjects of Examination are:—(a) Inorganic and Organic Chemistry, and the connection between the Chemical and Physical character of Substances. (b) Qualitative and Simple Quantitative Analysis of Inorganic Substances, and the Preparation of Pure Chemical Substances. (2) The Examination in subjects (a) is similar, and will be held at the same time as the Second B.Sc. Examination. The Examination in subjects (b) is conducted practically in the Laboratory. (3) The Competition is open to all Students of the University, from the second to the sixth year (inclusive) of their attendance, and will take place in July 1903.

1900. *J. K. H. Inglis, M.A., B.Sc.*

#### VII.—NATURAL HISTORY, INCLUDING GEOLOGY AND BOTANY.

(1.) The subjects Natural History, Geology, and Botany are coequal in the Examination, and the Examination in each of the three subjects is similar to that for the Second B.Sc. in Pure Science, and consists of two parts—a Written Examination extending over not less than three hours, and a Practical Examination with specimens.

(2.) The next Examination will be held in April 1904, at the same time as the Second B.Sc. Examination.

(3.) The Competition is open to all Students of the University, from the second to the sixth year (inclusive) of their attendance.

1901. *John D. Falconer, M.A., B.Sc.*

#### VIII.—ENGINEERING AND MECHANICAL AND USEFUL ARTS.

The Examination is similar to that for the Second B.Sc. in Engineering, with the addition of questions on prescribed books treating of Engineering and Mechanical and useful Arts.

The Competition is open to all Matriculated Students who have been in regular attendance on the Class of Engineering for at least two Winter Sessions, and who have not been Students of the University for more than four years. The next Competition will take place in April 1903.

The Examiners are the Professors of Engineering and Natural Philosophy.

1900. *David P. Grubb, B.Sc.* } equal.  
*John M. Newton, B.Sc.* }



## IX.—STEVEN SCHOLARSHIP IN AGRICULTURE.

This Scholarship was founded in 1882 by the Misses Steven of Bella-houston in memory of their brother Moses Steven, Esq. It is of the value of £70, and is awarded annually, in connection with the Class of Agriculture, the subjects of examination being Agriculture and General and Agricultural Chemistry.

The Scholar is required to visit the annual exhibitions of the four leading agricultural societies, or such as the Professor of Agriculture shall appoint, and to report on his visit or visits to the satisfaction of the Professor of Agriculture. The Exhibitions which the Scholar is required to visit are:—

The Royal Agricultural Society of England.

The Bath and West of England Agricultural Society.

The Highland and Agricultural Society of Scotland.

Royal Agricultural Society of Ireland.

See Deed of Foundation at p. 397 of CALENDAR for 1882-83.

1902. *Samuel Simpson.*

## X., XI.—HOPE PRIZE SCHOLARSHIPS.

Two Hope Prize Scholarships have been instituted (with funds formerly of the Hope Chemistry Prize founded by the late Professor Thomas C. Hope) in connection with the Chemical Laboratory of the University, each of the value of about £30 per annum, tenable for one year, and awarded annually at the end of the Winter Session. Each Scholarship is awarded to the student whom the Professor of Chemistry thinks most deserving of those who have worked during that Winter Session in the Chemical Laboratory of the University. The scholars must work during the Summer and Winter Sessions succeeding their appointment in the Chemical Laboratory of the University, and must assist the Professor of Chemistry in such manner as he thinks fit in each case, and the scholars are not required to pay fees for the Laboratory. In case of resignation of a scholar, or of a scholar failing to fulfil the conditions, the Professor of Chemistry may, if he thinks proper recommend a student working in the Chemical Laboratory for the remainder of the Scholarship so become vacant, the new scholar so appointed to perform the duties and receive the payments during the remainder of the time for which his predecessor was appointed. Scholars may, in case of great distinction, be appointed for a second year.

1902. *Alexander Cameron ; John Anderson.*

XII.—NEIL ARNOTT SCHOLARSHIP IN EXPERIMENTAL PHYSICS.<sup>1</sup>

Is awarded annually in April.

<sup>1</sup> For particulars, see "Scholarships" in Faculty of Arts.

## XIII., XIV.—THE MACKAY SMITH SCHOLARSHIPS.

These Scholarships, one in Natural Philosophy and one in Chemistry, each of the annual value of £25, tenable for two years, and to be held under such regulations and conditions as the Senatus may from time to time direct. The Scholarship in Natural Philosophy is open for competition to Students who have attended the Class of Natural Philosophy, and the Scholarship in Chemistry to Students who have attended the Class of Chemistry, both in this University. The successful Candidate for the Scholarship in Natural Philosophy is bound to attend the Class of Natural Philosophy, or to prosecute the study thereof, in the University during at least one year of his tenure of the Scholarship, in such way as the Senatus may direct or approve; and the Scholarship in Chemistry is held under similar conditions as regards attendance on the Class of Chemistry, and the prosecution of the study thereof. The next Competition—Natural Philosophy—will take place at the end of Winter Session 1904, and in Chemistry in July 1904.

1902.

(Chem.). | *Thomas Oliver, B.Sc. (Nat. Phil.).*XV.—ROYAL COMMISSION FOR EXHIBITION OF 1851  
PHYSICAL SCIENCE SCHOLARSHIP.

The Commissioners for the Exhibition of 1851 give this University the power of nominating a Student to a Scholarship of £150 a-year, tenable for two years, and which may be extended to three years under the following conditions, viz. (a) That he is a British subject; (b) That he has been a *bona fide* student of Science in this University for three years; (c) That he has been for a full year previous to his appointment, and at the date of his appointment is, a student of the University, or has been a student of the University for a full year ending within twelve months prior to the date of his appointment, and since ceasing to be such student has been engaged solely in scientific study. The Scholarship is limited to those branches of Science (such as Physics, Mechanics, and Chemistry) the extension of which is specially important for the national industries, and may be tenable in any University or other Institution to be approved by the Commissioners. Applications must be made annually not later than the 1st of March. See Regulations, p. 544 of CALENDAR for 1891-92.

XVI., XVII.—THE ARTHUR TREVELYAN SCHOLARSHIPS  
IN ENGINEERING.

Two Arthur Trevelyan Scholarships in Engineering, of about £15, 12s. per annum, for proficiency in Engineering and the Mechanical and useful Arts, tenable in this University for two years. Candidates must not be more than nineteen years of age, must have passed the preliminary examination or its equivalent, and must not have attended more than one Winter and one Summer Course in Engineering and field work

respectively, either in this University or elsewhere. The subjects of examination are (*a*) Mathematics, as far as the subjects required for the first B.Sc. examination in Engineering; (*b*) Physics to the same extent; (*c*) Engineering (the subjects of the previous Winter Session and field work); (*d*) geometrical drawing and elementary graphics. See Excerpt from Deed, page 538 of CALENDAR for 1892-93. One Scholarship is awarded annually in March.

1901. *A. F. M. Clark.*

1902. *Thomas Grieve.*

#### XVIII., XIX.—MISSES BAXTER OF BALGAVIES SCHOLARSHIPS AND BURSARIES.

Under this Endowment there are two Scholarships, of the annual value of £40, and two Bursaries, of the annual value of £30. They are in the gift of the Directors of the High School of Dundee, and are open for competition to all pupils of that school who shall have finished their course at the time, or within one year previously. The examination is held in Dundee by examiners appointed by the Directors, and the subjects are Geometry, Algebra, Trigonometry, and Mechanical Drawing. The Scholarships are tenable for one year certain, and for a second if a favourable certificate is sent to the Directors by the Senatus Academicus, and the Bursaries for two years. The patrons may extend the tenure of these Scholarships for a further period of one year, provided the holder shall have previously passed the First Examination for the Degree of Bachelor of Science in the Department of Engineering in this University. The Classes to be attended during the first two years are Mathematics, Natural Philosophy (two courses), Engineering (two courses), and Chemistry, and may (by resolution of the Senatus), be attended in any order most convenient to the scholar, provided he intimate his intentions to the Dean of the Faculty of Science beforehand. In the event of a third year's tenure, the Scholar may attend any two classes selected by himself and approved by the Senatus.

These Scholarships are not to be held with any other Scholarship, Fellowship, or appointment yielding £50 per annum. See Deeds of Foundation, at page 255 of the CALENDAR for 1869-70, at p. 372 of CALENDAR for 1878-79, and at p. 377 of the CALENDAR for 1881-1882.

#### XX.—GRAY SCHOLARSHIP FOR RESEARCH.<sup>1</sup>

#### XXI.—THE WILLIAM DICKSON TRAVELLING FUND.<sup>1</sup>

#### XXII.—EARL OF MORAY ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.<sup>1</sup>

<sup>1</sup> For particulars, see under Faculty of Arts.

### XXIII.—THE SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is in the patronage of the Trustees of the British Museum, and is of the annual value of £144. The Trustees may appoint any Graduate in any Faculty of the University who has obtained his degree after examination. The office is tenable for five years, at the expiration of which period the Lecturer is ineligible for the next election. The number of lectures is not to be less than twelve in each year, nor more than three in the same week. The course is required to be annually delivered between the first of November and the end of July following, at such public places in the United Kingdom as the Trustees shall approve. The public are admitted without fee. The Lecturer is required at the termination of each course to deposit a copy, or full extract of such course of lectures, with the Principal Librarian of the British Museum, to whom application may be made for further particulars.

Of the foregoing Fellowships, Scholarships, Bursaries, and Prizes, the following are open during 1902-1903.<sup>1</sup>

#### SCHOLARSHIPS.<sup>1</sup>

1. *Royal Commission for Exhibition of 1851 Physical Science Scholarship*, No. XV., page 295. Applications should be made not later than the 1st of March.

2, 3. *Two Hope Prize Scholarships*, Nos. X. and XI., page 294.

4. *Misses Baxter of Balgavies Scholarship*, Nos. XVIII. and XIX., page 296.

5. *Steven Scholarship in Agriculture*, No. IX., page 294. The competition takes place in March. Candidates to enter names *on or before* 1st March.

6. *The Vans Dunlop Scholarship in Chemistry*, No. VI., page 293. The next competition will take place on Monday, 17th July 1903, at 9 and 1 o'clock. Names of Candidates to be given in, and Certificates shown, not later than 1st July.

7. *The Vans Dunlop Scholarship in Engineering and Mechanical and Useful Arts*, No. VIII., page 293, of £100 a year, tenable for three years. The Examination is similar to that for the Second B.Sc. for the degree in Engineering, with the addition of Questions on one or other of the following groups of books at the option of the Candidate :—(1) Maren's "Testing of Materials"; Unwin's "Testing of Materials"; Thurston's "Materials of Construction." (2) Bovey's

<sup>1</sup> For further information, and for information regarding other Fellowships, Scholarships, Bursaries, and Prizes, see page 290, where full information regarding the conditions and values, &c., are given. The values of the Fellowships, Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise and fall of the rate of interest, &c.

"Hydraulics"; Moore's "Sanitary Engineering"; Tudsberry's "Water-works Engineering." (3) Fidler's "Bridge Construction"; Burr's "Stresses in Bridges"; Mills' "Railway Construction." (4) Cotteril's "Steam Engine"; Silvanus Thompson's "Dynamo-Electric Machinery"; Donkin's "Gas, Oil and Air Engines." The Competition is open to all Matriculated Students who have been in regular attendance on the Class of Engineering for at least two Winter Sessions, and who have not been Students of the University for more than four years. The Examinations will take place on 3rd April and following days at 9 A.M. Candidates are required to give in their names, with a statement of their University standing, to the Clerk to the Senatus, on or before 15th March 1903, and, at the same time, to state on which of the four foregoing groups of books they elect to be examined.

8. *Neil Arnott Scholarship for Experimental Physics*, No. XII., page 294.

9. *One Arthur Trevelyan Scholarship in Engineering*, No. XVI., page 295. Names of Candidates to be entered on or before 15th March.

*Competitors for Fellowships and Scholarships must have studied the subjects of Examination at the University of Edinburgh. No Fellowship or Scholarship can be held along with any other University Fellowship or Scholarship.*

#### FUNDS FOR RESEARCH.<sup>1</sup>

1. *The William Dickson Travelling Fund*, No. XXI., page 296. Applications to be lodged with the Secretary of Senatus on or before 15th March annually.

2. *The Earl of Moray Endowment for the Promotion of Original Research*, No. XXII., page 296. Applications for participation in the Fund, which must in the first place be submitted to the Dean of the appropriate Faculty, should be made to the Secretary of Senatus.

#### BURSARIES.<sup>2</sup>

1, 2. *Two Sibbald Bursaries*.<sup>3</sup>

3. *Heriot Bursaries*.<sup>3</sup>

4. *The Donald Fraser Bursary*.<sup>3</sup>

5. *Renton Bursary*.<sup>3</sup>

6-10. *Four Buchanan Bursaries*<sup>3</sup> may be held in the Faculty of Science.

*Town Council Bursaries.* Apply to the "City Clerk, Council Chambers, Edinburgh," to whom early application should be made.

*University Bursaries cannot be held along with any other Bursary.*

<sup>1</sup> For particulars see under Faculty of Arts.

<sup>2</sup> See footnote, page 297.

<sup>3</sup> For particulars see under Faculty of Arts.

PRIZES.<sup>1</sup>

- 1, 2. *Two Newton Bursaries or Prizes.*<sup>2</sup>
3. *The Kelland Memorial Prize.*<sup>2</sup>
4. *The Lord Rector's Prize.*<sup>2</sup>
- 5, 6, 7. *The Gray Prize Essays.*<sup>2</sup>
8. *The Ramsay Memorial Prize* (consisting of Books or Apparatus of the value of about £3, 3s.) is awarded annually to the best Students in the Winter Class of Astronomy.

The attention of all Bursars in the Faculty of Science is particularly called to the following regulation :—

Bursars, &c., in the Faculty of Science (to whose Bursaries special conditions are not attached) must annually attend at least two of the Classes necessary for the Degree of Bachelor of Science, and must present themselves at the Examinations necessary for that Degree.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, &c., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Science*, on 14th November : and at the end of the Session. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the Session ; and at the end of the Session they must present Certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Mr Henry Cook, W.S., 61 North Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—*Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.*

JAMES GEIKIE, D.C.L., LL.D., F.R.S., &c.,  
*Dean of the Faculty of Science.*

<sup>1</sup> See footnote, p. 297.

<sup>2</sup> For particulars see under Faculty of Arts.



# Programme of Classes.

## FACULTY OF DIVINITY.

1902-1903.

Dean—Professor PATRICK, D.D.

The Class Fees are collected by the Factor. For the purpose of receiving Fees he will attend at the University for a short period at the beginning of the Winter and Summer Sessions, and Fees not then paid will be taken at his office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for same drawn in favour of the Collector of Class Fees, Edinburgh University.

*The Classes are now open to Women Students.*

*See page 157 as to payment of Class Fees by the Carnegie Trust.*

*The Classes will be opened as follows, and will close on 13th March 1903.*

Classes.	Days of Opening, and Hours of Lectures.	Professors.	Class Fees. <sup>1</sup>
Divinity .....	14 Oct., 12 o'cl.	Prof. Flint.....	£3 3
Ecclesiastical History.	14 Oct., 11 „	Prof. Taylor....	3 3
Biblical Criticism.....	14 Oct., 10 „	Prof. Patrick ...	3 3
Hebrew—Junior Cl....	14 Oct., 1 „	} Prof. Kennedy. {	{ 3 3
Senior Cl....	14 Oct., 2 „		{ 3 3
Arabic ( <i>Mond., Wed., &amp; Frid.</i> ).....	15 Oct., 3 „		{ 3 3
Syriac ( <i>Tues. &amp; Thurs.</i> ).....	16 Oct., 3 „		{ 2 2

THE SUMMER PREPARATORY CLASSES IN ELEMENTARY HEBREW AND ELEMENTARY ARABIC, conducted by the Class-Assistant under the superintendence of the Professor, open on 1st May, at 10 A.M. and 11 A.M. Fee for Hebrew, £1, 11s. 6d. ; and for Arabic, £2, 2s.

GIFFORD LECTURESHIP, for “promoting, advancing, teaching, and diffusing the study of Natural Theology in the widest sense of that term.”

*Lecturer*—Rev. HENRY MELVILL GWATKIN, D.D., University, Cambridge.

The arrangements for the next Course will be duly announced.

MATRICULATION. See page 27.

<sup>1</sup> For Second and Third Attendances in Divinity, no reduction. Subsequent attendances free. For Second Attendances on Hebrew, Ecclesiastical History, and Biblical Criticism, no reduction. Subsequent attendances free. Fee in case of Licentiates of Foreign and Colonial Churches, £2, 2s.



CURRICULUM FOR THE MINISTRY IN THE  
CHURCH OF SCOTLAND.

The Laws of the Church of Scotland require that every Theological Student, who desires to qualify himself for the Ministry, should attend the Class of *Divinity*, either during *three full and regular Sessions*, or during *two regular and three partial Sessions*;—and also that he should regularly attend during two Sessions each of the Classes of *Hebrew*, *Ecclesiastical History*, and *Biblical Criticism*.

*Entrance Examinations.*

(1) Students, before enrolment *for the first year* of their curriculum with a view to the Ministry in the Church of Scotland, must produce to the Professor of Divinity Certificates of their having satisfactorily undergone an Examination in the subjects embraced in the *Curriculum of Arts*, and also in the Elements of Hebrew Grammar. By Act IX. of General Assembly 1872, it is ordained that this Examination shall be conducted at each of the four Scottish Universities, shortly before the commencement of every Session, by four Examining Committees, consisting of members elected by the adjoining Synods, with Conveners nominated by the General Assembly. *The Convener of the Committee for the University of Edinburgh is the Rev. John Alison, D.D., Minister of Newington.* The time of the Committee's meeting and the prescribed subjects of Examination will be timeously advertised in the *Mission Record* of the Church of Scotland.

(2) Students, before enrolment at the beginning of *every Session after the first* of their Course in Divinity, must produce certificates of their having satisfactorily undergone the Examinations prescribed by their respective Presbyteries. For subjects of Examination prescribed by the *Presbytery of Edinburgh*, see *Appendix to Calendar*.

*Discourses.*

Every Student of Divinity is required during his curriculum to deliver with approbation *six* discourses upon subjects prescribed by the Professor of Divinity, viz., a Homily, a Latin

Thesis, a Lecture, a popular Sermon, a Hebrew Exercise on a passage of the Old Testament, and an Exercise with additions on a passage of the Greek New Testament.

The following Regulations have been made by the Faculty of Theology in regard to the delivery of these Discourses. (1) Students of the *first* year shall give in their *Homily* to the Professor of Divinity not later than 1st February; (2) Students of the *second* year shall give in their *Latin* Thesis not later than the 16th December, and shall be prepared to deliver their *Lecture* not later than the 10th January; (3) Students of the *third* year shall give in their *Hebrew Exercise* and their *Greek Exercise* with additions, not later than the 16th December, and shall be prepared to deliver their *Popular Sermon* not later than the 2nd of February.

#### *Attendance at Foreign Universities.*

The General Assembly of 1868, with the consent of a majority of Presbyteries, enacted and ordained:—(1) That all Candidates for the ministry shall attend during at least *two sessions* the Theological Classes at one or more of the Universities of Scotland, and shall deliver, with approbation, the Six Trial Discourses required by the Acts of the General Assembly; and (2) That any Student who wishes to prosecute the remainder of his Theological Curriculum at any Protestant University or Universities not within the bounds of this Church, shall, before repairing thither, undergo satisfactory examination by the Presbytery with which he is connected, and shall, moreover, satisfy the same Presbytery in regard both to the Classes which he proposes to attend, and to the proficiency he has acquired in the language used in the Foreign University in which he intends to study.

## Courses in the Faculty of Divinity.

### I. DIVINITY.

PROFESSOR FLINT.

The course of study in this class extends over three Sessions. The Subjects of the Lectures during 1902-1903 will be:—1.

The Christian Doctrine of God and the Trinity. 2. The Christian Doctrine of the World and Man. 3. The Christian Doctrine of Sin. 4. On Revelation and Inspiration.

Lectures will be delivered on Mondays, Tuesdays, Wednesdays, and Thursdays at 12 o'clock. Fridays will be devoted partly to the hearing of Discourses and Exercises, and partly to Lectures.

The work of the class includes two written examinations and an essay.

## II. HEBREW AND SEMITIC LANGUAGES.

PROFESSOR KENNEDY.

A.—HEBREW.

*Junior Class—1 to 2.*

This class is conducted in two divisions, an upper and a lower. The latter is intended for students having no previous acquaintance with Hebrew, the former for those who have advanced as far as § 30 of the text-book. The Lower Junior will meet for the first time on the day appointed for the opening of the Arts classes, and thereafter on five days a week with the Professor or the Assistant. Text-books: Davidson's *Introductory Hebrew Grammar*, and the book of Genesis in Hebrew.

The Upper Junior will meet for the first time on the day appointed for the opening of the Divinity Classes, and thereafter on three days a week with the Professor or the Class-Assistant. On these days the class will continue the study of the Grammar, including parts of the Syntax (Davidson's *Hebrew Syntax*), and read easy prose passages from the Old Testament. On two days a week the two divisions will meet together for the revision of the Grammar, and for practice in translation into Hebrew.

The students' progress is regularly tested by oral and written examinations throughout the Session.

*For Preparatory Class of Elementary Hebrew (see page 300).*

*Senior Class—2 to 3.*

Study of Davidson's *Hebrew Syntax*. Hebrew Prose Composition. Reading of unpointed texts (Baer's *Pentateuch*).

Reading and Exposition of portions of the Historical, Poetical, and Prophetical Books of the Old Testament. For Session 1902-1903, Judges ; Zechariah ; Psalms, Book v.

A Course of Lectures, extending over two Sessions, on Old Testament Introduction (including History of the Canon, Text and Versions).

Oral and Written Examinations.

The Senior Hebrew Class will be the Graduating Class in Hebrew for the Ordinary Degree of Master of Arts ; and any student who desires to attend this Class with a view to Graduation in Arts must previously pass an examination, in accordance with Sect. IV. sub-sect. 3 of the Regulations.

The examination will include plain passages for translation from and into Hebrew, and grammatical questions.

Those who propose, in a subsequent Session, to take up Hebrew as one of their Graduation Subjects, will have an opportunity of attending the Junior Class in that language during the Session 1902-1903.

#### B.—ARABIC—3 to 4.

The course of instruction in Arabic extends over one Summer and two Winter Sessions.

(1) A Preparatory Class for elementary Arabic is conducted during the Summer Session by the Class-Assistant, under the superintendence of the Professor. *Intending students of Arabic are strongly advised to take this Class.* Text-books : Socin's *Arabic Grammar* (New Edition, 1895) and Jacob's *Bible Chrestomathy*. The fee is £2, 2s.

(2) A Junior Class in continuation of the above, meeting three days a week in *alternate* sessions (next in 1902-1903). Text-books : Socin's *Grammar* and Bruennow's *Chrestomathy of Arabic Prose Pieces* (1895). Elementary Arabic Composition. The fee is £3, 3s.

(3) A Senior Class, meeting ordinarily three days a week in *alternate* sessions (next in 1903-1904), for more advanced reading in prose and poetry, and for the study of Arabic syntax and composition. Text-books (besides those already mentioned) :

The Koran (Fluegel's edition), Kalilah wa-Dimnah (Beyrout edition), Noeldeke and Mueller's *Delectus Veterum Carminum Arabicorum* (1890), Wright's *Arabic Grammar* (3rd edit., 1896). The fee is £3, 3s.

This course has been sanctioned by the University Court as a half-course qualifying for graduation in Arts, and the class will be held in two successive sessions, if required, to meet the needs of intending graduates. For text-books see under *Graduation in Arts*.

### C. —SYRIAC—3 to 4.

The course of instruction in Syriac extends over two Winter Sessions.

(1) A Junior Class, meeting on two days a week in *alternate* sessions (next in 1903-1904), for the study of the grammar and the reading of portions of the Syriac gospels. Text-books: Nestle's *Syriac Grammar* (1889), Syriac New Testament.

(2) A Senior Class, meeting on two days a week in *alternate* sessions (next in 1903-1904), for the study of syntax and composition and for more advanced reading in prose and poetry, such as the extracts from Bar-Hebræus and Ephrem Syrus in Roediger's *Chrestomathy* (3rd edit.) and the *Vitæ Prophetarum* in Nestle's *Grammar*.

The above order may be modified to suit intending students.

The fee for each of these classes is £2, 2s.

## III. ECCLESIASTICAL HISTORY.

PROFESSOR TAYLOR.

1. *Lectures*—Mondays and Tuesdays.—On The Rise and Diffusion of Protestantism.

2. *Lectures*—Wednesdays and Thursdays.—History of the Reformation in Scotland.

3. *Text-book*—Fridays.—Kurtz's "History of the Christian Church." First Division ; Second Section.

The work of the class includes three written examinations.

#### IV. BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

PROFESSOR PATRICK.

The course of study next Session will include (1) Lectures on Textual Criticism. (2) Introduction to Hebrews and the Pauline Epistles. (3) Reading of the Greek New Testament with Exegesis. (4) The History of the Canon of the New Testament.

There will be written and oral examinations, in which all regular students are required to take part; and subjects of occasional voluntary essays may be suggested.

#### *LECTURESHIPS.*

##### I.—GIFFORD LECTURES ON NATURAL THEOLOGY.

*Lecturer*—Rev. HENRY MELVILL GWATKIN, D.D.

These Lectures were endowed by the late Adam Gifford, Senator of the College of Justice, “for promoting, advancing, teaching, and diffusing the study of Natural Theology in the widest sense of that term.”

According to the Trust Deed, “the lecturers appointed shall be subjected to no test of any kind, and shall not be required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind; they may be of any denomination whatever, or of no denomination at all; they may be of any religion or way of thinking, or, as is sometimes said, they may be of no religion; or they may be so-called sceptics or agnostics or free-thinkers;—provided only that the ‘patrons’ will use diligence to secure that they be able reverent men, true thinkers, sincere lovers of and earnest inquirers after truth. I wish the lecturers to treat their subjects as a strictly natural science, the greatest of all possible sciences, indeed, in one sense, the only science,—that of Infinite Being, without reference to or reliance upon any supposed special exceptional or so-called miraculous revelation. The lecturers shall be under

no restraint whatever in their treatment of their theme. The lectures shall be public and popular, that is, open not only to students of the Universities, but to the whole community, without matriculation."

## II.—THE GUNNING VICTORIA JUBILEE LECTURESHIP.

### *Lecturer—*

With a view to promote the study of Natural Science among candidates for the ministry, and to bring out among ministers the fruits of study in Science, Philosophy, Language, Antiquity, and Sociology, Dr R. H. Gunning, of Edinburgh and Rio de Janeiro, has founded a Lectureship in the Faculty of Divinity of the University of Edinburgh, to be known as "The Gunning Victoria Jubilee Lectureship."

The Gunning Lectureship is a triennial appointment of the value of £100, and the appointment shall be made by the Faculty of Divinity. The lecturer may be any Scottish Presbyterian clergyman at home, or in the Mission field, eminent in Science, Philosophy, Language, Antiquity, or Sociology, and the lectures may be delivered in the University of Edinburgh, or such other place as the Faculty may appoint.

See Revised Scheme, p. 519 of CALENDAR 1889-90.

## Graduation in Divinity.

—o—

### REGULATIONS FOR GRADUATION IN DIVINITY.

*(Candidates who began the study of Divinity with a view to Graduation before 1st October 1896 are referred to the CALENDAR for 1896-97 and to previous CALENDARS.)*

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Divinity (B.D.) unless he be (1) a Graduate in Arts of the University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose by the University Court,<sup>1</sup> or partly in a Scottish University or Universities and partly in such institution or

<sup>1</sup> Institution—the Courses in which qualify for Graduation in Divinity—Westminster College, Cambridge.



institutions; or (2) a Graduate in Arts of any Scottish University or other University specially recognised as aforesaid,<sup>1</sup> and has completed his Theological Course, of which not less than two years' attendance has been given in this University.<sup>1</sup>

II. The Examiners are the Professors of the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination is fixed from time to time by the Senatus Academicus.

By a Supplementary Ordinance it is provided that, notwithstanding the provisions of Section I. hereof, the Senatus Academicus may, under this Section, admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological Course.

III. The subjects of examination are arranged in two departments:—The First Department embracing—(1) Hebrew, and (2) Apologetic Theology, or the Evidences of Natural and Revealed Religion; and the Second Department embracing—(1) Ecclesiastical History, (2) Systematic Theology, and (3) Biblical Criticism and Biblical Antiquities.

IV. Every Student who at the time when these Regulations came into operation had completed a part of his Theological Course with a view to Graduation as B.D., under Regulations hitherto in force, and shall thereafter complete his course of study in conformity with such Regulations, may become a Candidate for the Degree of B.D. without complying with the provisions of these Regulations.

V. The Degree of B.D. is in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and is not conferred *honoris causâ tantum*.

Candidates are required to communicate their names, together with evidence of their being qualified in terms of the above Regulations, to the Dean of the Faculty of Divinity, at least one week before the first day of the Examination.

The subjects of examination for 1902-1903 are as follows:—

#### DEPARTMENT I.

##### A.—For October 1902.

##### I. Hebrew—

- (1.) Questions in Grammar.
- (2.) Translation into Hebrew Prose.
- (3.) O. T. Introduction—The Pentateuch, Psalms and Isaiah with the history of the Old Testament Canon.
- (4.) Isaiah i.-xii.
- (5.) Psalms, Books iii.-iv.
- (6.) Deuteronomy i.-xviii.

<sup>1</sup> Degree of B.A. of Manitoba University recognised as qualifying for Graduation in Divinity.

B.—*For April and October 1903.*

- (1 and 2.) As above.
- (3.) O. T. Introduction—Historical Books, Minor Prophets, the Greek and Latin Versions.
- (4.) Zechariah.
- (5.) Psalms, Book v.
- (6.) Judges i.-xviii. (the unpointed text).

II. *Apologetic Theology*—

*For October 1902 and April 1903.*

- (1.) The Causes of Modern Doubt and the Grounds of Fundamental Christian Beliefs.
- (2.) The History of Antitheistic Thought in Britain during the 19th Century.
- (3.) The Christian Doctrine of Immortality, the objections which have been taken to it, and the replies which have been given to them.

DEPARTMENT II.

*For October 1902 and April 1903.*

I. *Ecclesiastical History*—

- (1.) The Main Facts in the Development of the Constitution, Doctrine, and Worship of the Church from 100 to 451 A.D. (2.) The History of the Church in Scotland during the 16th Century.

II. *Systematic Theology*—

- (1.) The History of Christian Dogmatics since the Reformation, and especially during the past century.
- (2.) Christology.
- (3.) Doctrine of the Church and Sacraments.

III. *Biblical Criticism and Biblical Antiquities*—

- (1.) Textual Criticism of the New Testament (including knowledge of the Manuscripts, Versions, and Critical Editions).
- (2.) History of the Canon of the New Testament to the middle of the 3rd century.
- (3.) Introduction to (1) the Pauline Epistles, and (2) the Gospels.
- (4.) Greek New Testament. The Catholic Epistles and Hebrews (with Introduction and Exegesis).

FEES.

Fee for Degree of B.D.,	.	.	.	£5	5
<i>When the Examination is taken at two periods—</i>					
The Fee for the First is	.	.	.	3	3
For the Second,	.	.	.	2	2

### 310 *Time-Table and Dates of Examinations, 1902-1903.*

Any Candidate who fails to pass pays a fee of 10s. 6d. for re-examination in each subject.

All Candidates for Examination or for Graduation, must be Matriculated Students of the year in which they appear for Examination or for Graduation.

#### TIME-TABLE AND DATES OF ENTERING FOR EXAMINATIONS, 1902-1903.<sup>1</sup>

*Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.*

1902.

Oct.	1.	Wed.	Names to be entered and fees paid <i>on or before</i> this date. <sup>1</sup>
„	7.	Tu.	Hebrew, 10 a.m. ; Apologetics, 2 p.m.
„	8.	Wed.	Ecclesiastical History, 10 a.m. ; Divinity, 2 p.m.
„	9.	Th.	Biblical Criticism, 10 a.m.

1903.

Mar.	17.	Tu.	Names to be entered and fees paid <i>on or before</i> this date. <sup>1</sup>
„	24.	Tu.	Hebrew, 10 a.m. ; Apologetics, 2 p.m.
„	25.	Wed.	Ecclesiastical History, 10 a.m. ; Divinity, 2 p.m.
„	26.	Th.	Biblical Criticism, 10 a.m.

Every Candidate for Examination or for Graduation must matriculate for the Academic year in which he appears for examination or for Graduation, and pay the Fee of £1 for Registration as a Member of the General Council (if not already a Member) *at least one clear day before the date of Graduation.*

The fees for Matriculation, for Examinations for Degrees, and for Registration of Graduates as Members of the General Council are payable at the Matriculation Office, University. When Candidates cannot attend personally to pay the fees, they should transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh,*" but not by cheques on private accounts.

#### THE DEGREE OF BACHELOR OF DIVINITY.

11th April 1902.

William Alexander Dunnett, M.A.	Joseph Moorhead, B.A.
Andrew James Forrest, M.A.	William Alexander Mowat, M.A.
James Kerr Macgregor, M.A.	James Winchester, M.A.
Oswald Bell Milligan, M.A.	

<sup>1</sup> When names are not entered, and fees paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the Examination until his name is entered, the fee paid, and all the necessary certificates, &c., lodged.

# DEGREE OF DOCTOR OF DIVINITY (D.D.).<sup>1</sup>

The Degree of Doctor of Divinity is conferred *honoris causâ tantum*,—and is granted in absence in special cases only. The Register of Doctors of Divinity begins in 1709, with the names of Edmund Calamy, Daniel Williams, and Joshua Oldfield. The names of Evans, Harris, and Isaac Watts follow in 1728. The Register now includes above 300 names.

The following is a list of those who have received the Degree of Doctor of Divinity in the years 1889-1902 inclusively<sup>2</sup> :—

1889.  
\*Griffith John.  
\*Professor Abraham Kuenen.  
Archibald Henry Sayce, M.A.  
Norman M. L. Walker.

1890.  
David Douglas Bannerman.  
R. H. Lundie, M.A.  
Canon J. H. Overton.

1891.  
Richard Glover.  
Robert Hutton, M.A.  
\*John Gibson Paton.  
D. W. Simon, M.A., Ph.D.

1892.  
William Balfour.  
Cornelius Giffen.  
Newham Hall.

1893.  
Thomas Nicol, B.D.  
Thomas B. W. Niven.  
George Adam Smith.  
James Wells, M.A.

1894.  
William Hastie, M.A., B.D.  
J. A. M'Clymont, M.A., B.D.  
J. C. M'Phail.  
William Muirhead.

1895.  
Robert G. Balfour.  
\*Alexander Marshall, M.A.

Charles Moinet, M.A.  
John Patrick, M.A., B.D.  
J. Guinness Rogers, B.A.  
\*David Sidey.

1896.  
Charles Gore, M.A.  
William Miller, C.I.E., LL.D.  
David Clement Scott, M.A., B.D.  
Alexander Williamson.

1897.  
H. M. Gwatkin, M.A.  
J. B. Hastings, M.A.  
W. P. Paterson, M.A., B.D.  
R. J. Sandeman.

1898.  
George Macalister, M.A.  
M. Henri Bois.  
Alexander Martin, M.A.  
Peter Thomson, M.A., B.D.

1899.  
J. Edgar Hill, M.A., B.D.  
Malcolm MacColl, M.A.  
David Somerville, M.A.

1900.  
\*William Bannerman.  
Charles Martin Grant, M.A., B.D.

1901.  
J. Richardson Illingworth, M.A.  
John Keith, M.A., B.D.  
John Methven Robertson, M.A.  
David Morrison Ross, M.A.

<sup>1</sup> Those to whom the Degree has been offered, if unable to be present at the Graduation Ceremonial immediately ensuing, may present themselves at any subsequent ceremonial, on giving at least a week's notice.

<sup>2</sup> The names of those who received the Degree, prior to 1859, will be found in the "Catalogue of the Graduates in the Faculties of Arts, Divinity, and Law of the University," since its foundation," published in 1858, and the names of those who received the Degree from 1859 to 1888, both years included, will be found in the List of Graduates, published in 1889.

\* Conferred *in absentia*.

11th April 1902.

Rev. James King Hewison, M.A., Minister of Rothesay Parish.

Rev. Peter Hay Hunter, St Andrew's Parish, Edinburgh.

Rev. James Jeffrey, M.A., Trinity U.F. Church, Pollokshields, Glasgow.

Rev. Edward Sell, B.D., Secretary, Church Missionary Society, Madras.

Rev. Andrew Harper, B.D., Principal of St Andrew's College, Sydney (*in absentia*).

## Bursaries, Scholarships, Fellowships, &amp;c.

## I.—BURSARIES.

See note under Bursaries, page 169.

## A.—PRESENTATION BURSARIES.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	Years.	Annual Allowance to each Bursar.	Patrons.
I.	1703	Agnes Nairne.	£3 0 0	1	1	..	Senatus Academicus.
II.	1715 1764	Sir James M'Lurg of Vogrie, sometime Dean of Guild of Edinburgh; and Rev. John Penman, Minister of Bothkennar.	20 0 0	1	4	£20 0 0	Capt. R. G. G. Gilmour of Craigmillar, 1st and 3rd Presentations. The Dean of Guild of Edinburgh, 2nd Presentation. Heirs of William Brown, surgeon, 4th Presentation.
III.	1766	Rev. Robert Alexander, Minister of Girvan.	About 19 0 0	1		About 19 0 0	Kirk-Session of Girvan and Presbytery of Ayr.
IV.	1838	Robert Blair, D.D., Barton St Andrews, Norfolk	16 0 0	1		16 0 0	Governors of George Heriot's Trust.
V.	1838	Do. Do	About 23 0 0	1	4	About 23 0 0	The Principal, and Profs. of Hebrew, Divinity, Church History.

I. In abeyance at present.

II. The *M'Lurg and Penman Bursary* is tenable for four years at the Theological Classes. No person shall be presented to the Bursary who is not a Master of Arts of a Scottish University.

III. This Bursary consists of the interest of £420, lent on heritable security, and of £75, 17s. of accumulated interest. It must be held by a Student from the parish of Girvan, presented by the Session; whom failing, by one within the Presbytery of Ayr, to be appointed by the Presbytery.

IV. The *Blair Bursary* can be held only by a young man who has been educated in George Heriot's Hospital School, and has become a Student of Divinity in the University of Edinburgh.

V. To be applied for the benefit of a Student of Divinity, whether a graduate or not. *Bursar*—

B.—COMPETITION BURSARIES.<sup>1</sup>

See note under Bursaries, page 169.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1646	Buchanan of that Ilk.	£24 0 0	1	3	£24 0 0	Town Council.
II.	1666	William Struthers &	23 7 9	1	3	23 7 9	Do.
	1685	Archbishop Leighton.					
III.	1687	Andrew Ramsay and Sir Andw. Ramsay of Abbotshall.	16 13 4	1	3	16 13 4	Do.
IV.	1695	King William III.	50 0 0	2	2	25 0 0	Senatus Academicus.
V.	1867	Miss Mary Ettles of Inverness.	101 7 6	3	3	33 15 10	Senatus.
VI.	1873	Grierson of Ogcastle's Trustees.	80 0 0	3	1	26 13 4	Senatus.
VII.	1878	Mrs Isabella Webster.	125 10 0	2	3	47 5 0	) Senatus.
VIII.	1878	Dr Andrew Thomson	100 0 0	1	3	31 10 9	
IX.	1879	Mrs Barbara Mylne	30 0 0	4	4	25 0 0	Trus. of Dr Thomson.
				1	3	30 0 0	Moderator, Procurator, and Principal Clerk of General Assembly.
X.	1838	J. Stewart Hepburn of Colquhalzie, Esq.	13 2 6	1	3	13 2 6	Committee of the Presbytery of Edin.
XI.	1858	Do. Do.	13 2 6	1	3	13 2 6	Do.
XII.	1864	Do. Do.	13 2 6	1	3	13 2 6	Do.
XIII.	1882	William Renton.	20 0 0	1	3	20 0 0	Profs. of Theology.
XIV.	1884	Robert Hunter.	37 5 0	2	2	18 12 6	Principal and Profs.
XV.	1889	James Simson, Edinburgh.	175 0 0	7	3	25 0 0	Presbytery of Edinburgh.
			About			About	
VI	1892	Thomas Lockerby, London.	32 0 0	1	3	32 1 0	Senatus.
	1856	John Sharp, Esq., Perth.	18 0 0	1	4	18 0 0	The Presbytery of Perth.
XVIII.	1900	Miss Janet M. Brown.	30 0 0	3	3	10 0 0	Senatus.

I. The Buchanan Bursary is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, and who are entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition

<sup>1</sup> The values of these Bursaries are subject to deduction of the fees paid to the Examiners.

who has for more than one Session been a Student in the Faculty of Divinity in any of the Scottish Universities. The Bursar holds the Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the Senatus Academicus desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University. *Bursar—1900, J. A. Fleming, M.A.*

II. The Struthers and Leighton Bursary is open by competition to all Students who are Masters of Arts, or who have passed all the examinations necessary for admitting them to the degree of Master of Arts, and who are entering on their first session of attendance in the Faculty of Divinity in the said University. *Bursar—1901, W. P. Gillieson, M.A.*

III. By Ordinance, No. 81, of the Univ. Com., and subsequent Order in Council the regulations for this Bursary are the same as those for the Buchanan Bursary. *Bursar—*

IV. By Ordinance, No. 76, of the Universities' Commissioners, and subsequent Order in Council, each King William Bursary is open to competition to all Masters of Arts of any of the Universities of Scotland, or Students who have passed the necessary examinations for the Degree of M.A., and who have attended for one Session, and no more, in the Faculty of Divinity in the University of Edinburgh: Provided that no person shall be a competitor who has attended for one or more Sessions in the Faculty of Divinity in any other of the Scottish Universities. The examinations in the competition shall be conducted by the Professors in the Faculty of Divinity in the University. Each Bursar shall hold his Bursary for two years, subject to the condition that he shall, during that period, give regular attendance as a Student of Theology in the University. No person shall hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University. When the two Bursaries fall vacant at one time, one Bursar shall be appointed for two years, and the other for one year. *Bursar—1902, C. S. W. Taylor, M.A.*

V. Founded in memory of her brother, J. Ettles, Esq., of Havannah. Open to those who have passed all the examinations for M.A., and are in the first year of their theological course. Cannot be held with any other Bursaries or Scholarships. See Deed of Foundation in CALENDAR for 1867-68. *Bursars—1900, Adam Mackay, M.A.; M. F. Simpson, M.A.*

VI. As in the case of the Faculty of Arts (see No. XLVII.), a student from the parishes of Crawford or Leadhills, is, if found duly qualified in respect of attainments, appointed to a Bursary in his first year, and holds it (unless he has failed to show himself a diligent student) to the end of his Theological curriculum. Failing any student from those favoured parishes, the Bursary or Bursaries will be thrown open to competition, but the winner only holds his Bursary for one year in each case. In the second and third years a student from Crawford or Leadhills has again a preference, but holds the Bursary for one year only. Preferential candi-



dates to lodge their applications with the *Clerk of Senatus* on or before 1st November. See p. 372 of *CALENDAR*, 1877-78. *Bursar*—1901, *Andrew Robertson, M.A.*

VII. Founded by Mrs Isabella Webster, 38 Heriot Row, Edinburgh, in memory of her husband, George Webster, Esq. There are three Bursaries,—two of about £47 each, and one of £31, 10s., open to Students of Divinity in connection with the Church of Scotland in their first year, who have successfully passed all their Examinations for the degree of M.A. in any Scottish University, whether they have actually graduated or not. Each is tenable for three years. See Deed of Foundation in *CALENDAR* for 1878-79, p. 377. *Bursars*—1899, *Wm. A. Mowat, M.A.*; 1900, *G. F. Dunnett, M.A.*; 1901, *H. D. F. Dunnett, M.A.*

VIII. *Preferential Candidates* for the Thomson Bursaries must apply to Messrs Traquair, Dickson & Maclaren, 11 Hill Street. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, preferred. The subjects of Examination are Latin, Mathematics, Moral Philosophy, Elementary Hebrew, Apologetics, and Greek Testament. See p. 374 of *CALENDAR* for 1880-81. *Bursar*—1900, *J. B. Jamieson, M.A.*

IX. *Mylne Bursary*.—Founded by Mrs Barbara Macaulay or Mylne, in memory of her husband, the Rev. Andrew Mylne, minister of the parish of Dollar. The Bursary (being the free proceeds of £750) which is for behoof of Students for the ministry of the Church of Scotland, of Scottish birth, tenable during the curriculum in Divinity, is awarded at the end of the session, after examination (of first year's students) on the subjects taught in the Theological Classes during the session. No one may become a Candidate who has not given his whole time to study during the session preceding the date of Examination, nor may the holder engage in paid work during any session in which he holds the Bursary. It cannot be held along with any other Bursary, Scholarship, or Endowment. See Deed of Foundation at page 377 of *CALENDAR* for 1880-81. *Bursar*—1902, *W. P. Gillieson, M.A.*

X., XI., and XII. The sums attached to these Bursaries are payable to Divinity Students of the Church of Scotland of the first or second year towards the expense of their education at the University of Edinburgh. Each is tenable for three years. For one bursary Gaelic-speaking students have a preference.

XIII. Founded by the late William Renton, of 20 Royal Terrace, Edinburgh. The Faculty of Theology are the Patrons and Trustees. The Bursary may be held for three years, if the Bursar continues so long to prosecute his studies in Theology at the University of Edinburgh, with a view to the ministry in the Church of Scotland, and if not, then for the whole period he continues at the same. The student presented must have attained the age of sixteen, and not exceed the age of twenty-one years, and must be appointed after an examination in the month of November on such subjects as the Professors of the Faculty of Theology consider proper. *Bursar*—

XIV. Founded by the late Robert Hunter, Dalhousie, Chesters; the Principal and Professors being Patrons. These Bursaries are for the benefit of Students of

the Church of Scotland, and are awarded at close of first Session in Divinity, and are tenable for two years. Bursars must attend two Sessions in Chemistry and Geology, taking at least one of these Classes each Session. Students of the name of Hunter and Hamilton from the parishes of Temple or Cockpen have a preference, but preferential Candidates must attain to a fixed percentage. Bursars must produce certificates of diligence in the Classes of Chemistry and Geology. See excerpt from Deed of Foundation, page 437 of CALENDAR for 1885-86. Vacant.

XV. These Bursaries are open to Students who are entering on their first Session in Divinity, and are tenable for three years. For further details and subjects of examination (which differ somewhat from the University Examination for first year's Bursaries), apply to the Rev. G. T. Jamieson, Clerk to the Presbytery of Edinburgh, The Manse, Portobello. *Bursars*—1899, *David Heggie*; *David H. Sawers*.

XVI. Founded by the late Thomas Lockerby, Esq., London. The Bursary is tenable for three years, and is open to "Students who desire to become ministers of the Church of Scotland only." See Excerpt from Disposition, page 545 of CALENDAR for 1890-91. *Bursar*—1901, *Charles Robertson, M.A.*

XVII. *Sharp Bursary*.—This Bursary is of the annual value of £18, tenable for four years. The Bursar must be a Student of Divinity of the Church of Scotland, and may prosecute his studies at any one of the Scottish Universities. Preference to any student being a native of or subject to the jurisdiction of the Presbytery of Perth. Apply to the Clerk to the Presbytery of Perth.

XVIII. *Three Misses Brown, of Spring Gardens, Bursaries*, each of the annual value of £10, tenable for one year. One Bursary will be awarded to a student of the first year, one to a student of the second year, and one to a student of the third year. *Bursars*—

C.—PRESENTATION BURSARIES, open only to Graduates or Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1695	Robert Bayne of Pitcairley.	£25 0 0	1	3	£25 0 0	Society for Benefit of Sons of the Clergy. Prof. of Divinity.
II.	1695	James Nairne.	16 13 4	1	3	16 13 4	

I. By Ordinance, No. 71, of the Universities' Commissioners, and subsequent Order in Council, the following are the regulations as to this Bursary:—Each Bursar shall hold the Bursary for three years, subject to the condition that he shall, during that period, give regular attendance as a Student in Theology in the University of Edinburgh. No person shall hold the Bursary along with any other Bursary, or with any Scholarship in the University. *Bursar*—

II. This Bursary is tenable for three years, or for such period as the Bursar shall give regular attendance as a Student of Theology in the University of Edinburgh. *See* Ordinance, No. 67, of the Universities' Commissioners, and subsequent Order in Council. *Bursar*—

D.—BURSARIES gained in Faculty of Arts, the holders of which are at liberty to study in the Faculty of Divinity.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1809	Dr Donald Grant, London.	£180 0 0 About	4	4	£45 0 0 About	Dr Grant's Trustees.
II.	1846	John Jamieson, Edinburgh.	26 0 0 About	1	4	26 0 0 About	Principal and two Professors.
III.	1871	The Sibbald Trustees.	150 0 0	5	3	30 0 0	The Trustees of Dr J. R. Sibbald.
V.	1889	Daniel Maclaurin, London.	64 5 0	1	4	64 5 0	Town Council.

I. *See* under Faculty of Arts.  
II. *See* under Faculty of Arts.

III. *See* under Bursaries in Arts.  
IV. *See* under Faculty of Arts.

## II.—PRIZES.

*See note under Bursaries, page 169.*

### I.—BARTY MEMORIAL PRIZE.

The Barty Memorial Prize of £20 for scholarship in Hebrew and Hellenistic Greek is open to entrants to the Divinity Halls of the four Scottish Universities.

### II.—HEPBURN PRIZE.

The Hepburn Prize of £25 (which may be divided), open to all Students in actual attendance at the Divinity Hall, may be awarded annually for an essay on a prescribed subject.

### III.—XII. THE GUNNING VICTORIA JUBILEE PRIZES.

With a view to promote the study of Natural Science among candidates for the ministry, and to bring out among ministers the fruits of study in Science, Philosophy, Language, Antiquity, and Sociology, Dr R. H. Gunning, of Edinburgh and Rio de Janeiro, has founded ten prizes in the Faculty of Divinity of the University of Edinburgh, to be known as "The Gunning Victoria Jubilee Prizes."

These prizes are ten in number, and comprise a series of five prizes of £50, £40, £30, £20, and £10, for excellence in Theological subjects, and a series of five prizes of similar values for excellence in Natural Science subjects. In their order the prizes in each series correspond

in value. A minimum standard of proficiency will be required in each series. The successful competitors may each take both the prize in the Theological, and the prize in the Natural Science series to which their marks may respectively entitle them.

The prizes are competed for triennially at the close of the Divinity Session, and are open to all Students of the Church of Scotland, or other Scottish Churches holding the Confession of Faith, who are graduates of this University, or have attended two classes in the Faculty of Divinity in this University, and who have completed their Theological curriculum within two years of the close of the session when the competition takes place.

The examination in the Natural Science series will be on Natural History, Botany, and Geology, and of the same standard as the First B.Sc. Examination in Pure Science. The examination in the Theological series will be in Theology proper, the Language and Literature of the Old Testament, Ecclesiastical History, and Biblical Criticism.

The Examiners are the Professors of the subjects of examination in the University of Edinburgh; with the addition of a member of the Senatus of the New College, to be appointed by the Faculty of Divinity. See Revised Scheme, p. 519 of CALENDAR 1889-90.

The next examination under this scheme will be held at the close of Session 1904-1905.

1902. *Theological Series*—1st Prize not awarded.

2nd „ not awarded.

3rd „ James Young Simpson, M.A.

4th „ not awarded.

5th „ not awarded.

*Natural Science Series*—1st Prize not awarded.

2nd „ James Young Simpson, M.A.

3rd „ not awarded.

4th „ not awarded.

5th „ not awarded.

### III.—SCHOLARSHIPS.<sup>1</sup>

*See note under Bursaries, page 169.*

#### I.—PITT CLUB DIVINITY SCHOLARSHIP.

This Scholarship was instituted in 1862 by the Pitt Club, is of the

<sup>1</sup> It has been agreed by the Senatus and the Faculty of Divinity, in regard to the Fellowships and Scholarships of the funds of which they are severally the administrators, that

1. The *Pitt Theological Scholarship* shall be competed for when it falls vacant.
2. The *Aitken Theological Scholarship* shall be reserved from competition when it falls vacant in the same year with the Pitt.
3. The *Glover Divinity Scholarship* shall (according to its conditions) not be open to competition when the Pitt or Maxton may be open, and shall be similarly reserved when the Aitken is open.
4. That meanwhile the *Maxton* be competed for when it is vacant.

annual value of £99, 13s. (under deduction of Examiners' fees), and tenable for three years. By Ordinance No. 77, of the Universities' Commissioners, this Scholarship is open to competition to all Masters of Arts of any of the Universities of Scotland who have given regular attendance in the Faculty of Divinity in the University of Edinburgh for three complete Sessions, and who are in the course of studying, with the view of becoming Clergymen of the Church of Scotland. No person is admissible who has been entered as a Student of Divinity more than six years prior to the time of the competition.

Candidates are examined on (1) The Evidences of Revealed Religion; (2) Systematic Theology; (3) Hebrew; (4) Church History; (5) Biblical Criticism. It cannot be held with any other Scholarship, Fellowship, or Bursary of any Scottish University, or along with any parochial or pastoral charge, whether as minister or assistant.

1901. *William A. Curtis, B.D.*

## II.—MAXTON DIVINITY SCHOLARSHIP.

This Scholarship was founded by the Trustees of the late John Maxton, Esq., in 1867, is of the annual value of £42, 8s. (under deduction of Examiners' fees), and is tenable for three years. It is open only to Students who are members of the Established Church of Scotland, and who have completed the course of study in the Faculty of Divinity in the University of Edinburgh. *See Deed of Foundation*, at p. 234 of *CALENDAR* for 1867-68.

1902. *W. A. Morat, B.D.*

## III.—THE GLOVER DIVINITY SCHOLARSHIP.

This Scholarship was founded in 1875 by Subscribers to a Fund for commemorating the memory of the Rev. W. Glover, D.D., and by the University Endowment Association. It is of the annual value of about £40 (under deduction of Examiners' fees), tenable for three years, and open to all Masters of Arts of any of the Universities of Scotland who have finished their study of Theology, before entering the Church of Scotland, within six years, and who have attended the last Session of their course at least in the University of Edinburgh. It cannot be held with any other Divinity Scholarship or Bursary in any Scottish University, and it is not offered for competition in any year where there is a vacancy in the Pitt Divinity Scholarship or the Maxton Divinity Scholarship. *See Deed of Foundation*, at p. 343 of *CALENDAR* for 1875-76.

1900. *C. Gordon Mackenzie, B.D.*

## IV.—THE AITKEN THEOLOGICAL SCHOLARSHIP.

This Scholarship, founded in 1875 by bequest of the Rev. David Aitken, D.D., formerly minister of Minto, is of the annual value of £112, 12s. 6d. (under deduction of Examiners' fees). Its purpose is to make provision for the study of Church History and Biblical Criticism

at one or more University Seats in Germany, or elsewhere on the Continent of Europe, in the case of meritorious students at Edinburgh University. It is to be awarded, after competitive examination (on due proficiency being shewn), to a Student in Divinity of the University, of Edinburgh, who is a Graduate in Arts of that University of not more than four years' standing. It is tenable for two years; but the Senatus may extend the term for another year if it appear to them desirable. The time of the competition to be fixed and publicly intimated by the Senatus at least three months before; and the Senatus are also at liberty to prescribe whether one Semester or two Semesters in the foreign University shall be attended in each year. It is not offered for competition in the same year as the Pitt Divinity Scholarship or the Glover Divinity Scholarship. See Deed of Foundation at p. 344 of CALENDAR for 1876-77.

1892. *C. B. Milligan, B.D.*

#### V.—THE DAVID KIDD DIVINITY SCHOLARSHIP.

This Scholarship, which is of the annual value of £36 (under deduction of Examiners' fees), is tenable for three years, and is awarded, after competitive examination in Theology (same as for B.D.), to students of any of the Universities of Scotland who are natives of Scotland, and who have finished their course of study with the view of becoming Ministers of the Church of Scotland. See Deed of Foundation in CALENDAR for 1879-80, p. 354.

1901. *Archibald S. Ballantyne, B.D.*

#### VI.—VANS DUNLOP SCHOLARSHIP IN HEBREW AND ORIENTAL (SEMITIC) LANGUAGES.

The Competition is open to all who have been Matriculated Students for not less than two years in this University, and who have not completed six academic years either in this University alone or in this and any other University or Universities together; and who have attended at least two courses under the Professor of Hebrew and Oriental Languages. For General Regulations, see under Faculty of Arts.

Candidates will be examined in Hebrew, Syriac, and Arabic.

The Examiners are the Professor of Hebrew and Semitic Languages, and an Examiner appointed by the Senatus. The next Competition will take place at the end of March 1902.

1902. *Macduff S. Simpson, M.A.*

#### VII.—VANS DUNLOP SCHOLARSHIP IN HISTORY.

(See *Scholarships in Faculty of Arts.*)

#### VIII.—BRUCE OF GRANGEHILL AND FALKLAND SCHOLARSHIPS.

These Scholarships were founded in 1865 by Mrs Tyndall Bruce of Falkland, and are of the annual value of £100. They come into



operation only when a vacancy occurs in any one of the three Scholarships of this name in the Faculty of Arts, by the death, resignation, or dismissal, of a Scholar during the period of his tenure of the Scholarship; and are tenable in this Faculty during the remainder of that period. They cannot be held with any other Scholarship or Fellowship of a Scottish University, or with any situation yielding an income of £100 a year. The subjects of Examination are prescribed from time to time by the Faculty.

#### IX. and X.—THE JEFFREY SCHOLARSHIPS.

These Scholarships, two in number, were founded in 1887 by Miss Jane Jeffrey of Victoria Terrace, Portobello. They are each of the annual value of about £69 (under deduction of Examiners' fees), and are tenable for one year. They are awarded annually for special proficiency in the subjects embraced in each of the four departments of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Biblical Criticism; and are open to Students of Divinity in connection with the Church of Scotland who shall have given regular attendance for at least one Session on the Divinity Classes in this University, including the class with which the Scholarship competed for is specially connected. They are competed for in the following order:—first year, Divinity, and Hebrew and Oriental Languages; second year, Ecclesiastical History and Biblical Criticism; and so on from year to year. At the close of Session 1902-1903 the Scholarships in Hebrew and Divinity are open. See Deed at page 497 of CALENDAR for 1888-89.

1902. *Ecclesiastical History*—Adam Mackay, M.A.  
*Biblical Criticism*—J. B. Jamieson, M.A. } equal.  
   G. V. Dunnett, M.A.

#### XI.—COBB SCHOLARSHIP.

This Scholarship, founded in 1889, is a bequest by the late Miss Matilda Johnston Cobb, Broughty Ferry. It is of the annual value of £30 (under deduction of Examiners' fees), and is tenable for three years. The subjects of Examination are Hebrew, Greek, Latin, and Mathematics, and the Scholarship is open to competition amongst Students who are entering on the study of Divinity with a view to becoming Ministers of the Church of Scotland.

#### XII. GRAY SCHOLARSHIP FOR RESEARCH.<sup>1</sup>

#### XIII. GEORGE SCOTT TRAVELLING SCHOLARSHIP IN SEMITIC AND INDIAN LANGUAGES.<sup>1</sup>

<sup>1</sup> For particulars, see Scholarships in the Faculty of Arts.



## XIV.—THE SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is open to Graduates in any of the Faculties in the University who have obtained their Degrees after examination. For further particulars, see page 297.

SCHOLARSHIPS, BURSARIES, AND UNIVERSITY PRIZES,  
OPEN FOR COMPETITION IN THE FACULTY OF DIVINITY DURING  
THE ACADEMIC YEAR COMMENCING 1ST OCTOBER 1902.<sup>1 2</sup>

I. PRESENTATION BURSARIES.<sup>3</sup>

1. *The James Nairne*, No. II., page 316.
2. *The Bayne*, of £25, No. I., page 316.
3. *The Blair*, No. V., page 312.

II. COMPETITION SCHOLARSHIPS AND BURSARIES, &c.<sup>3</sup>

The Bursary Examination at the beginning of Session 1902-1903 will be held on Friday, 24th, and Saturday, 25th October, commencing at 10 A.M. each day, when the following Bursaries will be open for competition :—

1. *The Cobb Scholarship*, No. XI., page 321.
2. *One Webster Bursary*, No. VII., page 315.
3. *One Thomson Bursary*, No. VIII., page 315. The Candidates must be matriculated Students (not necessarily Graduates) entering on their *first* Session in Divinity, and are required to intimate their intention to compete to the Agents for the Trustees, Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh, before 1st November 1902.
4. *Renton Bursary*, No. XIII., page 315.
5. *The Ramsay Bursary*, No. III., page 314.
6. *The Ettles Bursary*, No. V., page 314.

The subjects of examination for the above, and for *any other ordinary competition Bursary for first year's Students that may be vacant* at the opening of the Session will be—

- (1.) *Latin*—Tertullian's "Apologeticus," and translation from English into Latin prose.

<sup>1</sup> *Note*.—None of the undernoted Bursaries or Scholarships can be held along with any other Bursary, Fellowship, or Scholarship in any Scottish University. None of the after-mentioned Prizes are subject to this condition.

<sup>2</sup> The values of the Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise or fall of the rate of interest, &c. For further information and for information regarding other Scholarships, Bursaries, and Prizes, &c., see above.

<sup>3</sup> See Note under Scholarships.

- (2.) *Greek Testament*—Romans, Hebrews, and translation from English into New Testament Greek.
- (3.) *Mathematics*—"Euclid," Books I.-VI.; Algebra and Elementary Trigonometry.
- (4.) *Moral Philosophy*—Seth's "Study of Ethical Principles."
- (5.) *Hebrew*—Davidson's Grammar and Exercises.
- (6.) *Apologetics*—Flint's "Antitheistic Theories."

7, 8, 9. *Grierson Bursaries*, No. VI., page 314. Preferential candidates to lodge their applications with the *Clerk of Senatus* on or before 1st November 1902.

The subjects of examination for the Grierson Bursaries, if there be competition, will be :—

For the *first* year—

Same as for ordinary Competition Bursaries, except that *Apologetics* is omitted.

For the *second* year—

- (1.) *Latin*—Lucretius, Book V., and Livy, Book II.
- (2.) *Greek Testament*—Gospel of St Matthew and 1 Corinthians.
- (3.) *Hebrew*—Class work of preceding Winter Session, with the Book of Ruth in addition.
- (4.) *Divinity*—Class work of preceding Winter Session.
- (5.) *Ecclesiastical History*—To 325 A.D.
- (6.) *Biblical Criticism*—Introduction to the Synoptic Gospels.

For the *third* year—

- (1.) *Apologetic Theology*—Butler's "Analogy."
- (2.) *Hebrew*—Class Work of preceding Winter Session.
- (3.) *Ecclesiastical History*—To 325 A.D., and of Scotland, 1500 A.D. to 1600 A.D.
- (4.) *Biblical Criticism*—The Second Epistle to the Corinthians (Introduction and Exegesis).

10. *One Simson Bursary*, of the annual value of £25, and tenable for three years, is open to students who are entering on their first session in Divinity. For further details and subjects of examination (which are very nearly the same as those prescribed above for first year's bursaries), apply to the Rev. G. T. Jamieson, Clerk to the Presbytery of Edinburgh, The Manse, Portobello. Names to be given in to him on or before 1st October.

11. *A Hephburn Prize*, £25 (which may be divided), for the best Essay. Subject—"The Incarnation in its relation to Christian Ethics," to be competed for by Students of second or subsequent year. The Essay not to exceed fifty pages 4to, and to be handed

to Rev. Dr Scott, 16 Rothesay Place, Edinburgh, on or before 1st December 1902.

12. *Barty Memorial Prize*, of about £20, for Scholarship in Hebrew and Hellenistic Greek, is open to entrants to the Divinity Halls of the four Scottish Universities. Competitors to apply to J. W. Barty, Esq., Dunblane.

13-15. *Three Hepburn Bursaries* (each about £14), open for competition by all Students of first or second year in Divinity. Subjects of Examination: Butler's "Analogy," and Lightfoot's "Epistle to the Galatians," with the Introduction, Notes, and Dissertations. For particulars, apply to the Rev. Dr Scott, minister of St George's, Edinburgh, or Rev. G. T. Jamieson, Clerk to the Presbytery of Edinburgh, The Manse, Portobello. Names to be given in not later than 1st October.

At the close of Session 1902-1903, the following may be open for competition:—

#### I. SCHOLARSHIPS.

1. *The Glover Scholarship*, No. III., page 319.
- 2, 3. *Two Jeffrey Scholarships*, Nos. IX. and X., page 321.

The subjects of Examination are:—

##### *Divinity—*

1. Theological Introduction, Encyclopædia, and Methodology.
2. Religion and Revelation.
3. Essay on some subject in Apologetics.

##### *Semitic Languages (Hebrew and either Syriac or Arabic)—*

1. Hebrew. Deuteronomy i.-xviii. (with Driver's Commentary) Zechariah, Psalms, Book v., Hebrew Prose Composition.
2. Syriac. St John's Gospel and the Biblical extracts in Roediger's Chrestomathy. Grammar. Easy sentences to translate into Syriac.
3. Arabic. Jacob's Bible Chrestomathy and Bruennow's Chrestomathy, pp. 1-22. Grammar. Easy sentences to translate into Arabic.

4. *The Gray Scholarship*, No. XII., page 321, of the annual value of about £89, and tenable for two years, will be awarded in March 1903 to a Student in the Faculty of Divinity for distinction in the Final Examination for the Degree of Bachelor of Divinity. Candidates to be entered on or before 16th March. The holder of the Scholarship is required, as a condition of tenure, to satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research, either in the University of Edinburgh or in

another University approved by the University Court, and he must also satisfy the Senatus Academicus of the importance of the work he proposes to undertake, and of his qualification for such work.

## II. BURSARIES.

1. *One King William Bursary*, No. IV., page 314.
- 2, 3. *Two Robert Hunter Bursaries*, No. XIV., page 315.
- 4-6. *Three Misses Brown, of Spring Gardens, Bursaries*, No. XVIII., page 316, each of the annual value of £10, tenable for one year. One Bursary will be awarded to a student of the first year, one to a student of the second year, and one to a student of the third year.

## III. FUNDS FOR SPECIAL STUDY AND RESEARCH.

1. *William Dickson Travelling Fund*, No. I., page 199.
2. *Earl of Moray Bequest for the Promotion of Original Research*, No. II., page 200.

## IV. PRIZES.<sup>1</sup>

1. The *Lord Rector's Prize*, of twenty-five guineas, for the best Essay on "The recent Rise and Future Prospects of the Japanese Empire." The Prize is open to Students of the University at 1st November 1902, and to Graduates of not more than two years' standing. Essays to be lodged with the Secretary of Senatus on or before 1st November, each Essay distinguished by a motto, and accompanied by a sealed envelope containing the name, address, and University standing of the Candidate.

2. The *Blackie Celtic Prize*, for promoting the study of the Celtic Language and Literature, is open triennially in October to Matriculated Students of the University, and to graduates of any Scottish University, under the age of 30, and within six years of the date of their graduation. The Examination is in the Gaelic Language and Literature, and if the Examiners think fit also in any other branch of the Celtic Language. The Examination for the first prize of £50 will begin on 28th October at 11 o'clock. Names to be entered at the Matriculation Office on or before 15th October.

3-5. The *Trustees of Gray's Prize Essay Fund* offer three Prizes of £15, £10, and £5 for the first, second, and third best Essays on a subject to be announced in a notice on the Boards at the entrance to the University in March. The Prizes are open annually to Matriculated Students of not more than three years' standing at the commencement of the Winter Session. Essays to be lodged with the Secretary to the Trustees not later than 1st September. Rev. John Blackwood Munro, Duns, Secretary to the Trustees.

<sup>1</sup> See Note in CALENDAR under Scholarships.

The attention of all Bursars in the Faculty of Divinity is particularly called to the following Regulation :—

Each Scholar or Bursar, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, &c., or otherwise that he has fulfilled the conditions attached to the Foundation. Payments are made by the Factor for the University, Mr Henry Cook, W.S., 61 North Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—*Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.*

JOHN PATRICK, D.D.,  
*Dean of the Faculty of Divinity.*

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# Faculty of Law.

**Dean**—Professor Sir LUDOVIC J. GRANT, Bart., B.A.

*The Classes in the Faculty of Law will open as follows, and will close on Friday, 20th March 1903. The Class Fees are collected by the Factor. For the purpose of receiving fees he will attend at the University for a short period at the beginning of the Winter and Summer Sessions, and fees not then paid will be taken at his office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for same drawn in favour of, "The Collector of Class Fees, Edinburgh University."*

*See page 157 as to payment of Class Fees by the Carnegie Trust.*

## PROGRAMME OF CLASSES.

### WINTER SESSION, 1902-1903.

Classes.	Days of Opening, and Hours of Lectures.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Public Law <sup>2</sup> ( <i>i.e.</i> a half-course in Jurisprudence and a half-course in Public International Law)	15 Oct., 2 o'clock.	Prof. Sir Ludovic J. Grant, Bart.	£4 4 <sup>3</sup>
Civil Law <sup>2</sup> .....	15 Oct., 4 ,,	Prof. Mackintosh	5 5 <sup>4</sup>
Scots Law... ..	15 Oct., 9 ,,	Prof. Rankine .....	5 5 <sup>4</sup>
Constitutional Law and History <sup>5</sup> .....	15 Oct., 5 ,,	Prof. Kirkpatrick.	4 4 <sup>3</sup>
Conveyancing .....	15 Oct., 9 ,,	Prof. Mounsey ....	4 4
Political Economy <sup>2</sup> ...	14 Oct., 9 ,,		3 3 <sup>3</sup>
Do. (Honours) Course, <sup>2</sup> Mon., Tues., & Th...)	16 Oct., 11 ,,	Prof. Nicholson {	3 3 <sup>3</sup>
Procedure and Evidence <sup>6</sup> .....	16 Oct., 5.30 ,,	{ William M. } { Gloag, B.A. }	2 2

<sup>1</sup> Matriculation Fees: Year, £1, 1s.; Summer, 10s. 6d. Second attendances: On £5, 5s. or £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s. On Half-Courses: First half, no reduction; second half, £1, 1s.; on Procedure and Evidence and International Private Law, second attendances, £1, 11s. 6d.; third or subsequent attendances on any Class, £1, 1s.

<sup>2</sup> Qualifying also for the degree of M.A.

<sup>3</sup> For a Half-Course, £2, 2s.

<sup>4</sup> This Fee is paid in Winter, and includes the Winter and Summer Sessions. Fee for Winter Session only, £4, 4s.; for Summer Session only, £2, 2s.

<sup>5</sup> Qualifies either as an optional Arts subject, or as "History" as specified in § VII., 2 (b) of the Arts Regulations. Honours Course, see Faculty of Arts.

<sup>6</sup> Five shillings University entrance fee for non-matriculated Students. Payment of this fee does not entitle the Student to a Class Certificate nor to any other University privilege.

## SUMMER SESSION, 1903.

*The Classes in the Faculty of Law will open as follows, and will close on Wednesday, 15th July.*

Classes.	Days of Opening, and Hours of Lectures.	Professors and Lecturers.	Class Fees. <sup>1</sup>
Civil Law .....	12 May, 9 o'clock	Prof. Mackintosh.	£5 5 <sup>2</sup>
Scots Law .....	12 May, 9 ..	Prof. Rankine.....	5 5 <sup>3</sup>
Forensic Medicine....	1 May, 2 ..	{ Prof. Sir Henry D. Littlejohn.	4 4
International Pri- vate Law <sup>3</sup> .....	{ 12 May, 5 ..	{ J. H. Millar, } B.A., LL.B. }	2 2

## Courses of Lectures.

1902-1903.

## I. CIVIL LAW.

PROFESSOR MACKINTOSH, LL.D.

The full Course of Instruction in Roman Law extends over a Winter and a Summer Session, covered by one fee of £5, 5s.

I. HISTORY.—This Course, extending up to the Christmas vacation, includes a sketch of the Constitutional and Legal History of Early Rome; a survey of the primitive law in its various branches; and a discussion of the Sources of the law, the rise and progress of Jurisprudence, Codification, and other topics belonging to the external history of the civil law down to the reign of Justinian. It is intended to serve as a historical introduction to the study of the special departments. The historical lectures qualify as a Half-Course for Graduation in Arts.

II. INSTITUTES.—The remainder of the Course is devoted to a systematic exposition, in detail, of the law (1) of Persons and the Family, (2) of Property and Real Rights, (3) of Wills and Succession, and (4) of Obligations and Contract.

Part of these subjects is taken up in the second half of the Winter Session and the remainder in the Summer Session.

<sup>1</sup> See footnote 1, page 4.<sup>2</sup> See footnote 4, page 4.<sup>3</sup> See footnote 6, page 4.



The Lectures are equally adapted for students qualifying for the legal profession in Scotland or England, or for service in India or the Colonies.

*Text-Books.*—The Institutes of Gaius and Justinian, and the Professor's "Roman Law of Sale." In connection with the Historical Lectures, students are referred to Muirhead's "Historical Introduction to the Private Law of Rome," and Maine's "Ancient Law."

The "Muirhead Prize" and the "Forensic Prize" are offered annually for competition.

## II. SCOTS LAW.

PROFESSOR RANKINE, K.C., LL.D.

Students are recommended to make themselves familiar either with Erskine's "Principles" or his "Institutes" (edition by J. Badenach Nicolson, Esq., 1871). The nineteenth edition of the former work will be the text-book of the Class.

1. Sketch of the Literature of the Law of Scotland—the sources of the Law—the interpretation of Statutes.

2. Personal Relations—marriage and the modes of proving it—patrimonial effects of Marriage—rights of husband and wife—dissolution of Marriage—divorce—tutors and curators—minors—insane—parent and child—succession—heritable and moveable—wills—trusts.

3. Wrongs—personal injury—defamation—ownership of heritable property—rights and liabilities incident thereto—ownership of moveables—copyright—patents.

4. Obligations and Contracts—general requisites, constitution, and construction—agency—partnership—joint-stock companies—sale—letting to hire—leases—carriers—shipping—insurance—bills of exchange—extinction of obligations—diligence—bankruptcy.

5. Parochial Law—burgh and county law—rates and taxes.

6. Criminal Law.

### *Summer Session.*

The Lectures on Criminal Law, and part of the lectures on the above subjects, are delivered during the Summer Session.

## III. CONVEYANCING.

PROFESSOR MOUNSEY.

INTRODUCTION.—Classification of Civil Rights—Evidence of Civil Rights of Property—Province of Conveyancer.

I. HERITABLE RIGHTS.—Feudal System—Characteristic features in Scotland—Constitution of Feudal estate—(a) Voluntary transmission, *inter vivos*—Completion of Real right—(b) Legal Devolution on Death—Destinations—Entails—Title of Heirs—Casualties—(c) Compulsory Transmission—Statutory—Judicial—Sequestration—Trust for Creditors—(d) Leases—Servitudes—Contract of Sale of Heritage.

II. MOVABLE RIGHTS.—Personal Bonds and Obligations—Securities—Moveable—Heritable—Partnership—Indenture—Factory—Submission—Maritime writs—Insurance—Copyright—Patent.

III. TESTAMENTARY WRITS.—Testament—Disposition *mortis causa*—Codicil—Trust Disposition and Settlement.

IV. CONTRACT OF MARRIAGE.

V. AUTHENTICATION.

VI. STAMP DUTY.—Death duties.

(Erskine's Principles—Menzies' Lectures or Bell's Lectures.)

## IV. PUBLIC LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART.

Two Courses will be delivered during the Session 1902-1903: (1) Forty Lectures on General Jurisprudence (Philosophy of Law); and (2) Forty Lectures on Public International Law.

1. The Course on Jurisprudence will begin on Wednesday, 15th October 1902, at two o'clock.

(1) Analytical and Historical Jurisprudence.

(a) Law and Morality—The Evolution of Law—Archaic Types of Law—Modern Law—The State and Legal Sovereignty.

(b) The Sources of Law—Custom—Religion—Juridical Interpretation—Judicial Decision—Legislation.

- (c) Modes in which Law expressed—Written and Unwritten.
- (d) The Subject-matter of Law—Rights and Duties—Substantive Law and Adjective Law—Person—Things—Acts.
- (e) The Classification of Law.

(2) Philosophical Jurisprudence—The Basis of Political Obligation—The Law of Nature—Various phases of the conception—Examination of Institutions.

*Books of Reference.*—The Student's Austin. Holland, Jurisprudence. Markby, Elements of Law. Sir Henry Maine's works. Pollock, History of Political Science, and First Book of Jurisprudence. Clark, Practical Jurisprudence. Dicey, Law of the Constitution. Jenks, Law and Politics in the Middle Ages. Green, Principles of Political Obligation. Ritchie Natural Rights. Ahrens, Cours du Droit Naturel. Bluntschli, The Theory of the State. Lorimer, Institutes of Law.

2. The Course on Public International Law will begin on 6th January 1903.

- (a) An Historical Retrospect. (b) Some Account of the Science and Literature of Public International Law.
- (c) An examination of the sources and a critical exposition of the leading doctrines of Public International Law.

*Books of Reference.*—Ward, Enquiry into the Foundation and History of the Law of Nations. Wheaton, History of the Law of Nations; Introduction. Nys, Les Origines du Droit International. Walker, History of the Law of Nations. Westlake, International Law. Phillimore, International Law, Vol. I. Bryce, Holy Roman Empire. Pardessus, Us et Coutumes de la Mer. Hall, International Law. Wheaton, International Law. Lawrence, Principles of International Law. Rivier, Principes du Droit des Gens. Hertslet, Map of Europe by Treaty. Letters by Historicus. Pitt Cobbett, Select Cases. Holland, Studies in International Law.

## V. CONSTITUTIONAL LAW AND HISTORY.

PROFESSOR KIRKPATRICK, LL.D.

A full Winter Course, qualifying for Graduation in Law or in Arts [as "History," as required by section VII., 2 (b) of the Arts Regulations, or as one of the other seven subjects], Tuesdays, Wednesdays, Thursdays, and Fridays, at 5. The work of the Class consists in eight examinations (held on Mondays), and two essays during the Session.

*Subjects*.—(1st Half) Constitutional History and Law of England, to 1689; (2nd Half) Revolution, Cabinet Government, Reform, &c.; also Colonial History, and Constitutions of America, France, Germany, Switzerland, &c.

*Text-Books*.—(1) Elementary: Taswell Langmead's Constitutional History, and S. R. Gardiner's Student's History of England. For further study, Stubbs's Select Charters and English Constitutional History; Hallam's Middle Ages, Chap. viii.; Hallam's Constitutional History of England; Sir T. E. May's Constitutional History; English Constitution by W. Bagehot; Guizot's Lectures on Representative Government; R. Gneist's Self-Government in England, 3d edition, Berlin, 1871; Gneist's Geschichte und heutige Gestalt der Aemter, etc., in England, 2d edition, Berlin, 1866; Gneist's English Constitution, translated by P. A. Ashworth, London, 1886; Blackstone's Commentaries, Book IV., of Public Rights; Dicey's Law of the Constitution.

(2) Elementary: Thwaites' The Colonies, and Hart's Formation of the Union (Epochs of American History), Johnston's History of the United States, Macy's Our Government. For further study, Bryce's American Commonwealth, Bancroft's History of the Constitution of the U.S.A., Winsor's History of the U.S.A., Adams and Cunningham's Swiss Confederation, Dareste's or Demombynes' Constitutions, Boutmy's Studies in Constitutional Law, Borgeaud's Adoption and Amendment of Constitutions, A. Lawrence Lowell on Governments and Parties in Europe, &c.

The History Library (adjoining the Lecture Room) is open

to members of the Class during six hours weekly, the hours being announced at the beginning of each Winter Session.

The Mackay Lectures by Mr D. P. Heatley, University Lecturer and Assistant in History, are free to members of the Class.

#### VI. FORENSIC MEDICINE.

PROFESSOR SIR HENRY D. LITTLEJOHN, M.D., LL.D.

For Synopsis of this Course, *see* under Faculty of Medicine.

#### VII. COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

For Synopsis of this Course, *see* under Faculty of Arts.

#### VIII. INTERNATIONAL PRIVATE LAW.

*Lecturer*—J. H. MILLAR, B.A., LL.B.

A Course of Forty Lectures on this subject will be given during the Summer Session on Tuesday, Wednesday, Thursday, and Friday in each week, at 5 P.M. Under Ordinances 39 and 40 attendance on these Lectures qualifies as a half-course for Graduation in Law. The subject is also included among those in which Intrants to the Faculty of Advocates may be examined, and the Lectures are therefore adapted for students qualifying for the Scottish Bar.

The Lectures will deal with (a) The nature and scope of International Private Law; (b) Its History and Literature; (c) Its general principles and their application in regard to—  
i. *Forum*, or Competency, including Jurisdiction, the Recognition of Foreign Judgments, and Procedure generally; and  
ii. *Lex*, or Choice of Law, in questions of (1) the Personal Law, including *status*, and the family relations; (2) the Law of Property, moveable and immoveable; (3) the Law of Obligations, including contract and delict; (4) Succession; and (5) Bankruptcy.

Examinations will be held on the subjects of the Lectures.

Students are recommended to attend the Class of Scots Law before attending this Course.

*Books of Reference.*—Guthrie's Savigny ; Westlake's Private International Law ; Gillespie's Bar ; Foote on Private International Jurisprudence ; and Dicey's Digest of the Law of England with reference to the Conflict of Laws.

## PROCEDURE AND EVIDENCE.

*Lecturer*—W. M. GLOAG. B.A.

This Course of Forty Lectures will describe the various Courts of Scotland, with the nature of their jurisdiction, the actions competent in each, and the details of the procedure followed in them. It will also include the principles of the Law of Evidence. The Lectures are delivered on Tuesday and Thursday of each week during the Winter Session.

*Text-Books.*—Mackay's "Manual" and "Practice of the Court of Session" ; Coldstream's "Procedure in the Court of Session" ; Balfour's "Handbook of Procedure" ; Dove Wilson's "Sheriff-Court Practice in Civil Causes" ; Macdonald's "Criminal Law" ; Macdonald's "Criminal Procedure (Scotland) Act, 1887" ; Dickson on "Evidence" ; Kirkpatrick on "Evidence."

Candidates for Graduation who pass in Procedure and Evidence as an extra subject may have this fact recorded on their Diplomas.

## Regulations for Graduation in Law.

B.L. AND LL.B.

*For Regulations for those who began the Study of Law, with a view to Graduation, before 1st October 1895, see CALENDAR for 1896-97 or previous CALENDARS.*

Two Degrees in Law are conferred on Examination, viz., Bachelor of Law (B.L.) and Bachelor of Laws (LL.B.). Either Degree admits to the profession of Law Agent, provided the Candidate has included Scots Law and Conveyancing among his Graduation subjects, and has passed an Examination in the Practice of the Courts under the Law Agents Act.

The Degree of LL.B. (if the Candidate has been examined in Civil Law, Philosophy of Law, International Law (Public or Private), Con-

stitutional Law and History, Medical Jurisprudence, Scots Law (Civil and Criminal Law, including Procedure), and Conveyancing, admits to the profession of Advocate.

Two Law Graduation Examinations are held annually, the first beginning on the last Monday in October, and the second on the third Monday in March.

### I. BACHELOR OF LAWS (LL.B.).

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a Graduate in Arts of one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.<sup>1</sup>

II. The course of study in Law for the Degree of Bachelor of Laws includes the following subjects:—<sup>2</sup>

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations, or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law, during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and History, during a course of not less than eighty lectures.
- (6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws extends over three academical years, one of which at least must be spent in the University in which the Candidate intends to graduate, the other two may be spent in any other University or School of Law, specially recognised by the University Court.<sup>3</sup>

(2) No Candidate for a Degree is deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

<sup>1</sup> The following Degrees have been recognised in terms of this Section: B.A. of New Zealand University; B.A. of Cape of Good Hope University; B.A. of Dalhousie University, Halifax, Nova Scotia; Queen's College, Kingston, Canada; B.A. of the Universities of Calcutta, Madras, Harvard, and Michigan.

<sup>2</sup> For names of authorised extra-academical lecturers, *see* under Faculty of Medicine.

<sup>3</sup> Recognised in terms of this section: the Universities of Oxford, Cambridge, and Dublin; the Inner and Middle Temples; Lincoln's Inn; and Gray's Inn; the Madras Law School; College of Law, University, Minnesota.



IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the Candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every Candidate for the Degree of Bachelor of Laws is examined both orally and in writing on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma is given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

Candidates for Examination or Graduation must matriculate for the year.

## II. BACHELOR OF LAW (B.L.).

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Law (B.L.) unless he be a Graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court;<sup>1</sup> or until he has passed—*A.* The Preliminary Examination in the Faculty of Arts, or its equivalent, and *B.* An examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the Standard of Examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the Candidate, Moral Philosophy. (2) Latin. (3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law must include the following subjects:—

(1) Civil Law, during a course of not less than eighty lectures; or a half-course in Civil Law where in any University a full course is not available; provided that in the latter case, Candidates who are not already graduates in Arts are required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half-course in one or other of the following branches of Law:—(a) Jurisprudence, General or Comparative. (b) The Law of Nations, or

<sup>1</sup> See footnote 1, page 335.

Public International Law. (c) Constitutional Law and History. (d) International Private Law. (e) Mercantile Law. (f) Administrative Law.

(2) Law of Scotland, during a course of not less than eighty lectures.

(3) Conveyancing, during a course of not less than eighty lectures.

(4) Forensic Medicine, during a course of not less than forty meetings of the class ; or, in the option of the Candidate, a half-course in one of the branches of Law specified in sub-section 1 of this section, if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law extends over two Academical years.

(2) No Candidate for a Degree is deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The Candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court ; but one at least of these years must be spent, and all the examinations in the subjects mentioned in the preceding section must be passed, at the University in which he intends to graduate.

IV. The Candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him ; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every Candidate for the Degree of Bachelor of Law is examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma is given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

Candidates for Examination or Graduation must matriculate for the year.

## EXAMINATIONS.

### I. PRELIMINARY EXAMINATIONS FOR BACHELOR OF LAW (B.L.).

*For outlines of the subjects of the Preliminary Examination (a) on the Standard of the Preliminary Examination for the Degree of Master of Arts (M.A.), and (b) on the Standard of the Ordinary Degree of M.A., see Regulations for Degrees in Arts, where the dates of entering for the Examinations and payment of the Fees, and the dates of the Examinations, are given.*

## II. LAW EXAMINATIONS (FOR DEGREES OF LL.B. AND B.L.).

*Subjects for October 1902 (and till further notice).<sup>1</sup>*

In GENERAL JURISPRUDENCE the subjects will be *The Philosophy of Law and Civil Society*, and *Analytical and Historical Jurisprudence*. For books recommended see Synopsis of the Professor's Lectures.

In PUBLIC INTERNATIONAL LAW the examination will be in the doctrines of the Law and the historical and scientific questions connected therewith. For books see Synopsis of the Professor's Lectures.

In CIVIL LAW the examination will be on the History of the Law, and on its Principles as explained in the Institutes of Gaius and Justinian. Candidates for LL.B. will also be examined on Books xviii., tit. i. (*De contrahenda emptione*) and xix., tit. i. (*de actionibus empti venditi*) of the Digest. The paper will contain passages for translation into English from the Latin text of the above-mentioned books.

In CONSTITUTIONAL LAW AND HISTORY — (a) Constitutional History and Law of England, down to the first Reform Act (Text-books, the works of Stubbs, Hallam, and May); (b) Constitutional History of the U.S. of America, of France, Germany, Switzerland, Hungary, etc. (Text-books, Bancroft, Bryce, Adams and Cunningham, Dareste's or Demombynes' Constitutions). See also Synopsis of Lectures.

In the LAW OF SCOTLAND the subject will be the Municipal Law, Civil and Criminal. The works of Mr Erskine, Mr G. J. Bell, and Lord Kingsburgh, in the latest editions, are recommended to Candidates.

In CONVEYANCING the subject of examination will be—Heritable Rights and Moveable Rights.

In FORENSIC MEDICINE—The subjects of the Course, with the exception of Toxicology.

In POLITICAL ECONOMY Candidates are recommended to read in addition to the books set for the M.A. examination, the Professor's "Principles of Political Economy," Books I.-III.

In INTERNATIONAL PRIVATE LAW Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

PROCEDURE AND EVIDENCE.—Candidates for a Law Degree may be examined in this subject also, and have the fact recorded on their diplomas. Candidates will be examined on the subjects dealt with in the Lectures. Text-books, see Synopsis of Lectures.

## FEES.

## I. PRELIMINARY EXAMINATION FOR B.L.

1. For each examination on Standard of M.A. Preliminary Examination, . . . . . £0 10 6
2. For each subject on M.A. Standard the same fee as is payable for the corresponding subject for M.A., viz. 15s., or £1, 1s., as the case may be.

<sup>1</sup> Examination papers will be set in the other subjects prescribed by the Regulations if required.

## II. LAW EXAMINATIONS FOR LL.B. AND B.L.

The fee payable for LL.B. is . . . . . £6 6 0  
*or*

If the Examination be taken at two or more periods—

For the First, . . . . . £3 3 0

For the Second, . . . . . 3 3 0

The fee payable for B.L. is . . . . . £5 5 0  
*or*

If the Examination be taken at two or more periods—

For the First, . . . . . £3 3 0

For the Second, . . . . . 2 2 0

Candidates for LL.B. or B.L. subjects pay a fee of 10s. 6d. for re-appearance for Examination in each subject.

Candidates for Examination or for Graduation must be Matriculated Students of the Academic year.

Fee for registration as a member of the General Council (if not already registered) £1.

## DATES OF LAW EXAMINATIONS, AND FOR GIVING IN NAMES AND PAYMENT OF FEES.<sup>1</sup>

Candidates may pay the fees personally or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh, but not by cheques on private accounts.

1902.

October 20, Mon. Names to be given in, certificates shown, and fees paid, *on or before* this date.

„ 27, Mon. Scots Law, 9-1; Constitutional Law and History, 2-4.

„ 28, Tu. Civil Law, 9-1; Constitutional Law and History, 2-4.

„ 29, Wed. Conveyancing, 9-1; Forensic Medicine, 2-4.

„ 30, Th. General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Political Economy, 2-4.

„ 31, Fri. Political Economy, 9-11; International Private Law, 12-2; Procedure and Evidence, 2.30-4.30.

Nov. 3, Mon. Oral Examinations begin.

1903.

March 2, Mon. Names to be given in, certificates shown, and fees paid, *on or before* this date.

<sup>1</sup> When names are not entered, nor fees paid, on or before the stated dates, or a Pass obtained where the fee has been previously paid, a late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination. This fee will not be received after Twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A Candidate must enter his name and pay the Fee, or, when the fee has been previously paid, obtain a Pass, for each periodical Examination at which he desires to appear. A Candidate is not held to be entered until his Schedule is lodged, the Fee paid, and a Pass to the Examination obtained.

March	16, Mon.	Scots Law, 9-1; Constitutional Law and History, 2-4.
"	17, Tu.	Civil Law, 9-1; Constitutional Law and History, 2-4.
"	18, Wed.	Conveyancing, 9-1; Forensic Medicine, 2-4.
"	19, Th.	General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Political Economy, 5-7.
"	20, Fri.	Political Economy, 5-7; International Private Law, 9-11; Procedure and Evidence, 12-2.
"	23, Mon.	Oral Examinations begin.

## GRADUATION CEREMONIALS.

Oct.	18, Sat.	} Names to be entered at least ten days previously.
	(Special)	
April	11, Sat.	
July	25, Sat.	

*Graduates in Law.*<sup>1</sup>

## DEGREE OF LL.B., 1889-1902.

1889.

David Anderson, M.A.  
 Claud Patrick Boswell, M.A.  
 Archibald Brown Campbell, M.A.  
 \*Andrew Henderson Briggs Constable, M.A.  
 \*Alistair Davidson, M.A.  
 \*Matthew Robin Greenlees, M.A.  
 James Arthur Hope, M.A.  
 \*William Hunter, M.A.  
 \*Robert Bird Kerr, M.A.  
 Francis Kinloch, B.A.  
 \*George Fleming Mathers, M.A.  
 \*John Hepburn Millar, M.A.  
 \*Charles David Murray, M.A.  
 \*Coventry Dick Peddie, M.A.  
 John Ritchie, M.A.  
 \*Hamish Hay Stuart, M.A.  
 Arthur Moodie Thomas, M.A.  
 \*Alexander Thomson, M.A.

1890.

\*Duncan Mearns Abel, M.A.  
 \*James Robertson Christie, M.A., LL.B. (Glasg.).  
 \*William Scott Currie, M.A.

Edmund John Gunn, M.A.  
 Neil James Kennedy, B.A.  
 William James Kippen, B.A.  
 Lawrence M'Laren, M.A.  
 John Liddell Officer, M.A.  
 Alexander David Russell, M.A.  
 \*William Thomson, M.A.

1891.

Andrew Brown, M.A.  
 Charles Walker Bruce, M.A.  
 Robt. Jeffrey Cunningham, M.A.  
 James Wright Forbes, M.A.  
 Henry William Gibson, M.A.  
 Alexander Gray, M.A.  
 William Gray, M.A.  
 \*James Mercer Irvine, M.A., B.Sc.  
 \*Erskine Dawson Jamieson, M.A.  
 \*Thomas Johnston, M.A.  
 Robt. Carmichael Malcolm, M.A.  
 \*Thomas Brash Morison, M.A.  
 C. Morrison, M.A.  
 \*Andrew Fleming Smith, M.A.  
 James Robert Earl Monteith Smith, M.A.  
 Michael Smith, M.A.

<sup>1</sup> The names of all the Graduates in Law from the institution of the Degrees to 1888 will be found in the List of Graduates of the University, published in 1889, pp. 125-127. See also previous CALENDARS.

\* Passed with distinction.

\*Robert Macaulay Smith, M.A.  
 Frederick Mills Spankie, M.A.  
 Alex. Arthur Granger-Stewart,  
 M.A.

\*Robert Moir Williamson, M.A.  
 John Buchanan Young, M.A.  
 1892.

James Barty, M.A.  
 William Brown, M.A.

\*John Sproat Taylor Cameron,  
 M.A.

\*William Chree, M.A.  
 John Marr Davidson, M.A.

\*James Grant, M.A.  
 Augustus Wallace M'Gregor,  
 M.A.

Thomas John Millar, M.A.  
 Alexander John Raeburn, M.A.  
 1893.

George Haskell Boyd, M.A.  
 Thomas Sanderson Hepburn  
 Burns, M.A.

\*William Findlay, M.A.  
 Louis Carr Hallard, M.A.

\*William Ingram, M.A., D.Sc.

\*Robert Munro, M.A.  
 William Dormond Munro, M.A.

\*Alexander Blairford Smith, M.A.  
 Thomas Callander Wade, M.A.  
 John Peregrine Robertson White,  
 M.A.

1894.

\*Alexander Brown, M.A.  
 Robert Smith Craig, M.A.  
 William Graham, M.A.

Ian MacIntyre, M.A.

\*James M'Robie, M.A.  
 David Maxwell, M.A.

George Morton, M.A.  
 John Purves Smith, M.A.  
 Frederick James Thomson, M.A.

\*John Aitken Welsh, M.A.  
 1895.

\*Francis Molison Anderson, M.A.

\*James Ballantyne, M.A.

John Erskine Dods, M.A.  
 Alexander James Louttit Laing,  
 M.A.

\*Charles Lippe, M.A.  
 Alexander M'Callum, M.A.  
 William Dunbar MacDougall,  
 M.A.

William George Manson, M.A.

\*John Arthur Thomas Robertson,  
 M.A.

Walter James Robertson, M.A.  
 James Rose, M.A.

\*James Miller Thomson, M.A.  
 David Milne Watson, M.A.

1896.

\*James Adamson, M.A.  
 Arthur James Alison, M.A.  
 William Blair, M.A.

\*John Aitken Christie, M.A.  
 James Dunlop, M.A.

\*Hugh Archibald Hamilton, M.A.  
 Robert Macfie, M.A.

Robert Dundonald Melville, M.A.  
 James Duncan Millar, M.A.  
 William Mitchell, M.A.

1897.

\*Alexander Boyd Barty, M.A.

\*John Cowan, M.A.

\*Thomas Crow Darling, M.A.  
 Maxwell Fleming, M.A.

Robert Candlish Henderson,  
 M.A.

\*David Nasmyth Clarke Hogg,  
 M.A.

Robert Macgregor Mitchell, M.A.

John Alexander Robson, M.A.

George Currie Steuart, M.A.

1898.

Bijay Kisor Acharyya, B.A.

\*William Burt, M.A.

\*Robert Gray, M.A.  
 Thomas Hart, M.A.

\*John Alexander Inglis, B.A.  
 Henry Lillie, M.A.

\* Passed with Distinction.



Malcolm Nicolson MacInnes,  
M.A.

John Mackintosh, M.A.

Dugald Maclean, M.A.

John James Maclean, M.A.

William Ogilvy, M.A.

\*Subharama Swaminadhan, M.A.

1899.

\*William Keith Aikman, M.A.

\*James Bell Ballingall, M.A.

\*David Connel, M.A.

\*Edward Francis Gibson, M.A.

George Hart, M.A.

Charles Angus Macpherson, M.A.

\*David Anderson Miln, M.A.

\*David Robertson, M.A.

1900.

\*William Darling, M.A.

\*John Hossell Henderson, M.A.

James Mitchell, M.A.

William Harper Sellar, M.A.

John Smart, M.A.

Alexander Steedman, M.A.

\*Alfred Patrick MacThomas  
Thoms, M.A.

#### DEGREE OF B.L.

1889.

\*Robert Liddell Cockburn.

John Glover.

William Stowell Haldane.

John Lumsden Macpherson,  
M.A.

John James Waugh.

1890.

Duncan Cameron.

Duncan Archibald Maccoll.

Robert Watson.

1891.

John Scrymgeour Hepburn.

John Nisbet.

William Alexander Stewart.

Thomas Trotter.

1893.

John Romanes.

Thomas Edward Taylor, M.A.

1901.

Samuel Kerr Gifford Kerr,  
M.A.

William M'Clymont, M.A.

John Selby Mackay, M.A.

\*Francis Robert Sanderson, B.A.

Frederick Charles Thomson, B.A.

11th April 1902.

Edward Russell Boase, B.A.

Byrom Stanley Bramwell, B.A.

\*Duncan Macnab Burden, M.A.

James Smith Clark, M.A.

\*Marshall Millar Craig, M.A.

John Charles Fenton, M.A.

William Arnot Fleming, M.A.

Alex. Archibald Fraser, M.A.

Robert Forsyth Irving, M.A.

James Macdonald, M.A.

\*Alexander Morrice Mackay, M.A.

William Henry Meikle, M.A.

Arthur Stanley Pringle, B.A.,  
LL.B. (Cantab.).

\*Alexander Stuart, M.A.

\*Walter Tait Watson, M.A.

1894.

\*Alexander Douglas Donald.

Buckham William Liddell.

1895.

Geo. Ernest Rawson Coldstream.

William Alexander Cullen.

1896.

James Dan Easson.

\*Alexander Speeden Riach.

David Ritchie.

\*William Gowan Dobie Simpson.

1897.

Alexander Ernest Philip Gardner.

1898.

James Kidd.

John William Dods Kirkland.

Alexander Malcolm MacEwen.

And. Macgregor Meldrum, M.A.

William David Mitchell.

\* Passed with Distinction.



1899.

Robert Letalle Proudfoot.  
\*James Scrimgeour.  
John Swan Mercer.

1901.

Thomas Carmichael Lowe.  
William Robertson.

11th April 1902.

James Douglas Little.

DEGREE OF DOCTOR OF LAWS (LL.D.).†

The Degree of Doctor of Laws is conferred *honoris causâ tantum*. It was first granted in 1695. Previously to 1751 it had been conferred on seven persons only. Since then more than 400 names, including some of the most distinguished in Europe, have been added to the list. The degree is not conferred in absence except in very special cases.

The following is a list of those upon whom the Degree of Doctor of Laws has been conferred 1889-1902 :—‡

1889.

<sup>1</sup> Sir Syed Ahmed Khan, Bahadûr,  
K.C.S.I.  
J. E. T. Aitchison, C.I.E., M.D.,  
F.R.S., &c.

<sup>12</sup> James D. Dana.

<sup>1</sup> Francis Day, C.I.E., &c.

<sup>1</sup> Hon. David Dudley Field.

<sup>12</sup> C. Gegenbaur.

<sup>12</sup> E. Haeckel.

<sup>1</sup> Rudolf von Jhering, Dr. Jur.

<sup>12</sup> E. E. Kummer.

William Mackintosh, M.A., Q.C.

<sup>12</sup> Konrad Maurer.

Maurice Paterson, B.A.

Richard Quain, M.D., F.R.S.,  
&c.

<sup>1</sup> Rudolf von Roth, Ph.D.

<sup>12</sup> Barthélemy St. Hilaire.

<sup>2</sup> Jules Simon.

Whitley Stokes, C.S.I., C.I.E.,  
D.C.L., &c.

<sup>12</sup> Geheimrath Heinrich von Sybel.

James Ward, M.A., D.Sc.

<sup>1</sup> William Dwight Whitney.

<sup>12</sup> B. Windscheid.

1890.

Sir Benjamin Baker, C.E.

Pierre Paul Leroy-Beaulieu.

Right Hon. Henry Chaplin, M.P.

Sir Dyce Duckworth, M.D.

Sir John Fowler, Bart., C.E.

<sup>1</sup> James Anthony Froude, M.A.,  
LL.D.

Joseph H. Gilbert, M.A., Ph.D.,  
LL.D., F.R.S.

William W. Goodwin, D.C.L.

James Hardy.

Sir John Kirk, M.D., G.C.M.G.

General Robert Maclagan, R.E.

John Marshall, M.A.

Right Hon. J. P. B. Robertson,  
M.P.

Frederic Seebohm, F.S.A.

Emeritus-Professor C. Piazzi  
Smyth, F.R.A.S., &c.

\* Passed with Distinction.

† Those to whom the Degree has been offered, if unable to be present at the Graduation Ceremonial immediately ensuing, may present themselves at any subsequent Ceremonial, on giving at least a week's notice.

‡ The names of those who received the Degree prior to 1859 will be found in the "Catalogue of the Graduates in the Faculties of Arts, Divinity, and Law of the University of Edinburgh since its foundation," published in 1858, and of those who received the Degree from 1859 to 1888, both years included, in the List of Graduates published in 1889, and in previous CALENDARS.

<sup>1</sup> Conferred *in absentia*.

<sup>2</sup> Tercentenary Graduates unable to be present in 1884.

H. M. Stanley.  
Spencer Walpole.

1891.

Alexander Asher, Q. C., M. P., &c.  
John Beddoe, M. D., F. R. S., &c.,  
&c.

Major C. R. Conder, R. E.,  
D. C. L.

Felix Dahn.

Alexander Campbell Fraser,  
D. C. L., LL. D.

Cunningham Geikie, D. D.

George Joachim Goschen, M. P.

Sir George Murray Humphry,  
M. D., F. R. S.

Colonel Sir Colin Campbell Scott  
Moncrieff, K. C. M. G., C. S. I.

Professor Simon Newcomb.

Sir Herbert Stanley Oakeley,  
M. A., Mus. Doc., LL. D.,  
D. C. L.

John Johnstone Rogerson, B. A.,  
LL. B.

1892.

Surgeon-General James Macnabb  
Cunningham, M. D., &c.

<sup>1</sup> Rev. C. V. A. Van Dyck, M. D.,  
D. D.

Robert M. Ferguson, Ph. D.,  
F. R. S. E.

Rt. Hon. Sir Edward Fry.

<sup>1</sup> Theodore Nöeldeke.

Dr Jakob Schipper.

Hon. Sir Charles Tupper, Bart.,  
G. C. M. G., C. B., M. D.

<sup>1</sup> Rev. Thomas Walker, M. A.

Robert Boog Watson, B. A.,  
F. R. S. E.

1893.

Geheimrath Professor Dr Arthur  
Auwers.

Sir I. Lowthian Bell, Bart.,  
F. R. S.

John Sutherland Black, M. A.

Sir George Buchanan, M. D.,  
F. R. S.

Rt. Hon. Sir Stuart Knill, Bart.

Henry Duncan Littlejohn, M. D.,  
F. R. C. S. Edin.

Alfred Marshall, M. A.

John Rhys, M. A.

His Excellency General the Right  
Hon. Lord Roberts, of Can-  
dahar, G. C. B., G. C. I. E.,  
V. C., R. A. (B.).

Lieut.-Colonel Justin C. Ross,  
C. M. G.

Rev. Walter C. Smith, D. D.

Alexander Moody Stuart.

Ramsay Heatley Traquair, M. D.,  
F. R. S.

1894.

John Taylor Brown.

W. H. Gaskell, M. D., F. R. S.

Henry Goudy, M. A., LL. B.

Professor Franz Kielhorn, Ph. D.

Professor Diodato Lioy.

Charles B. Logan, W. S.

David Patrick, M. A., B. D.

Rt. Hon. Sir Charles John Pear-  
son, M. A., Q. C., M. P.

James Alexander Russell, M. A.,  
B. Sc., M. B., C. M.

George Wilson, M. A., M. D.

1895.

Rev. William Cunningham, M. A.,  
D. Sc., D. D.

Hon. Lord M. T. Stormonth  
Darling, M. A.

Thos. Edmonson Charles, M. D.

Joseph Remi-Leopold Delbœuf,  
Ph. D., D. Litt., D. Sc.

S. Weir Mitchell, M. D.

Professor W. M. Flinders Petrie,  
M. A., D. C. L.

1896.

Sir Dietrich Brandis, Ph. D.,  
K. C. I. E., F. R. S.

<sup>1</sup> Conferred *in absentia*.

P. Hume Brown, M.A.  
Giosuè Carducci.  
Sir Charles A. Elliott, K.C.S.I.  
Emeritus-Prof. David Masson,  
LL.D.  
Sir J. Russell Reynolds, Bart.,  
M.D., &c.  
Douglas Argyll Robertson, M.D.  
John Alexander Stewart, M.A.  
David Duncan, M.A., D.Sc.  
Professor Francis A. Walker,  
LL.D.

1897.

Professor James Dewar, M.A.,  
F.R.S.  
James Gairdner.  
William M'Ewan.  
Emeritus-Professor Sir Douglas  
Maclagan, M.D., &c.  
John Rae, M.A.  
The Rt. Hon. Lord Russell.  
John Turnbull Smith.  
John Wyllie, M.D.

1898.

Henry Pickering Bowditch,  
M.D.  
Sir William Broadbent, Bart.,  
M.D., F.R.S.  
Horace T. Brown.  
Thomas Lauder Brunton, M.D.,  
D.Sc., F.R.S.  
John B. Bury, M.A.  
J. Victor Carus.  
William J. Courthope, C.B.,  
M.A., D.Litt.  
David Ferrier, M.D., LL.D.,  
F.R.S.  
Joseph Forster, M.D.  
M. le Comte de Franqueville.  
Carl Gerhardt, M.D.  
Richard Burdon Haldane, Q.C.,  
M.P.  
Jonathan Hutchinson, M.D.,  
LL.D., F.R.S.  
Lord Kitchener of Khartoum.

Theodor Kocher, M.D.  
Thomas G. Law.  
John W. M'Crimble, M.A.  
August Martin, M.D.  
Johann Miculicz, M.D.  
Ottavio Morisani, M.D.  
William Osler, M.D., LL.D.  
Hon. Sir Walter Phillimore,  
Bart., D.C.L.  
William Playfair, M.D., LL.D.  
D. G. Ritchie, M.A.  
Thomas George Roddick, M.D.  
Siegmond Rosenstein, M.D.  
Herman Snellen, M.D.  
Sir Richard Thorne Thorne,  
K.C.B., F.R.S.

1899.

Sir William Anson, Bart., M.P.,  
D.C.L.  
Lord Balfour of Burleigh.  
William Mitchell Banks, M.D.,  
F.R.C.S.  
Andrew C. Bradley, M.A.  
Archibald H. Charteris, D.D.  
Marquess of Dufferin and Ava,  
K.C.B., G.C.B., G.C.M.G.,  
G.C.S.I., G.C.I.E., D.C.L.  
<sup>1</sup> Caleb Frank Gates, D.D.  
<sup>1</sup> Khan Bahadur Shams-ul-Ulama  
Moulavee Saiyid Muhammad  
Zia-ood-Deen Khan, Raees of  
Delhi.  
David F. Lowe, M.A.  
George Walter Prothero, M.A.,  
D.Litt.  
Andrew G. Wauchope, C.B.,  
C.M.G.  
Viscount Wolseley, K.C.B.,  
G.C.B., G.C.M.G., K.C.M.G.,  
D.C.L.

1900.

Horatio Robert Forbes Brown,  
J.P.

<sup>1</sup> Conferred *in absentia*.

His Excellency the Hon. Joseph  
Hodges Choate.

Miss Eleanor A. Ormerod, F.R.  
Met. Soc., F.E.S.

Charles D. F. Phillips, M.D.

Thomas Smith, D.D.

William Ritchie Sorley, M.A.

<sup>1</sup> Thomas Anderson Stuart, M.D.

<sup>1</sup> Professor Cornelis Petrus Tiele,  
Theol.D., Litt.D., LL.D.

John Philp Wood, W.S.

1901.

Charles Alfred Cooper, F.R.S.E.

Arthur John Evans, M.A.,  
F.S.A., Museum, Oxford.

Rt. Hon. Sir Robert Bannatyne  
Finlay, K.C., LL.D.

William Augustus Heard, M.A.

James Little, M.D., M.R.I.A.

James Moir.

Sir John Williams, Bart., M.D.,  
F.R.C.P.

#### 11th April 1902.

Right Hon. Lord Alverstone, G.C.M.G., Lord Chief Justice of England.  
The Right Hon. Herbert Henry Asquith, K.C., M.P.

Miss Dorothea Beale, Principal of the Ladies' College, Cheltenham.

John Cleland, M.D., D.Sc., F.R.S., Regius Professor of Anatomy,  
University of Glasgow.

Samuel Dill, M.A., Hon. D.Litt., Professor of Greek, Queen's College,  
Belfast.

Henry Austin Dobson, Esq.

James Alfred Ewing, M.A., B.Sc., F.R.S., M.I.C.E., Professor of  
Mechanism and Applied Mechanics, University of Cambridge.

William James, M.D., Ph. et Litt.D., LL.D., Professor of Psychology  
and Philosophy, Harvard University, U.S.A.

Arthur William Rücker, M.A., D.Sc., F.R.S., Principal of the Uni-  
versity of London.

Jacob Gould Schurmann, M.A., D.Sc., President of Cornell Univer-  
sity, U.S.A.

Sir John Batty Tuke, M.P., M.D., F.R.C.P.E., F.R.S.E.

Moulavi Nuzeer Ahmed, Khan Bahadur of Delhi (*in absentia*).

<sup>1</sup> Conferred *in absentia*.

# Bursaries, Scholarships and Prizes, &c., in the Faculty of Law.

## I.—BURSARIES.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patron.
I.	1873	The Grierson Trustees.	£80 0 0	3	1	About £26 13 4	Senatus.
II.	1873	Geo. Cairns, Solicitor.	19 0 0	1	1	About 19 0 0	Senatus.
III.	1878	Dr Andrew Thomson.	100 0 0	4	4	25 0 0	Trus. of Dr Thomson.

I. There are three Grierson Bursaries, each of the value of £26, 13s. 4d. annually. Deserving students from the parishes of Crawford or Leadhills, applying to the Clerk of Senatus on or before the 1st day of September, are entitled to preference, if they satisfy certain conditions;<sup>1</sup> and if the applicant is commencing his first Winter Session of the Law Curriculum he will be entitled to hold the Bursary for three years, provided "he prosecutes his studies with proper diligence."<sup>1</sup> The subjects of examination are Elementary Latin, English, and Arithmetic. See Outline of Subjects, pages 110 and 111, and Time-Table of Examinations, page 128.

Failing preferential candidates, the Bursaries will be tenable for one year only, and will be awarded to candidates who have attended one year in the Faculty of Arts in some University. 1. In the case of those commencing their first Winter Session in Law, the award will be to the candidate who has passed highest in Latin and Moral Philosophy at the Arts Graduation examination in October. 2. In the case of candidates commencing their second Winter Session—to the most distinguished law-student of that standing, who, if not a Graduate in Arts, has passed satisfactorily in Latin and Moral Philosophy at the Arts Examination, either in October or earlier. 3. In the case of candidates commencing the third Winter Session of the Law Curriculum—to the most distinguished law-student of that standing who has passed satisfactorily in Latin, Moral Philosophy, and Logic at the Arts Examination in October or earlier. See Regulations, CALENDAR 1877-78, p. 370. Bursars 1901—First year, *William Dunbar*. Second year, *A. M. Laing*. Third year, *J. C. Fenton*.

II. The competition for the Cairns Bursary, which is tenable for one

<sup>1</sup> See CALENDAR 1877-78, p. 370. By "proper diligence" is understood regular attendance on Classes, and reasonable proficiency in Class Examinations.

year only, and is not subject to any preferences, is subject to the same conditions as those for the second year Grierson Bursary. This Bursary is open to Students who have completed one year in the Law Faculty.  
*Bursar—1901,*

III. Candidates must be Matriculated Students commencing their First Winter Session, and must intimate their intention to compete to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, and also to the Clerk of the Senatus on or before 15th September. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries or the city of Edinburgh, are preferred. The Examination is in Latin and Moral Philosophy, and is the same as the October Examinations in those subjects for M.A. See CALENDAR 1879-80, p. 345. *Bursar—1899, William Robertson.*

Bursaries in the Faculty of Arts, the holders of which may study in the Faculty of Law (see also under Faculty of Arts):—

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patron.
I.	1809	Dr Donald Grant, London.	£180 0 0	4	4	£45 0 0	Dr Grant's Trustees
II.	1846	John Jamieson, Edinburgh.	About 26 0 0	1	4	About 26 0 0	Principal and Two Professors.
III.	1871	The Sibbald Bursaries.	150 0 0	5	3	30 0 0	Trustees of Dr J. R. Sibbald.
IV.	1883	Wm. Renton, Edinburgh.	20 0 0	1	1	20 0 0	Professors of Mathematics, Natural Philosophy, Chemistry, and Political Economy.
V.	1886	R. Allan, Feuar, Kelso.	About 90 0 0	3	3	About 30 0 0	Trustees of R. Allan
VI.	1889	Daniel MacLaurin, London.	62 10 0	1	4	62 10 0	Town Council.

## II.—SCHOLARSHIPS.

Where the competition is open to Graduates, their standing will be computed from the date of the Graduation Ceremonial immediately following the completion of their Law Examinations.

Four Vans Dunlop Scholarships, each of about £100 per annum, tenable for three years, are connected with the Faculty of Law:—

Candidates are required to matriculate for the year in which the competition takes place, and must produce evidence that they are eligible.

I. *Vans Dunlop Scholarship in Commercial and Political Economy and Mercantile Law*, for which both Law and Arts Students are eligible. For Regulations, see under Scholarships in Faculty of Arts.

Next vacancy in October 1904.

II. *Vans Dunlop Scholarship in the Law of Nature and Nations, Civil Law, and Constitutional Law and History.* The Regulations for competition are as follows :—

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, shall have graduated in Law in this University, or shall have passed the Graduation Examination in the three subjects of examination for the Scholarship : provided they have written papers of the LL.B. standard at the Graduation Examination, and have obtained an average of not less than 75 per cent. of marks in these subjects.

(b) The Competition is by written Essays on branches of law to be announced at least one year before the date of competition. The precise subject of each of the essays will be set on the conclusion of the Graduation Examination in October.

(c) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Next vacancy in October 1904.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

1901. *A. M. Mackay, M.A.*

Hon. Men., *J. Watson.*

III. *Vans Dunlop Scholarship in Scots Law and Conveyancing.*

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, have graduated in Law in this University, or have passed the Graduation Examination in Scots Law, Conveyancing, and Forensic Medicine, provided they have obtained at the Graduation Examination an average of not less than 75 per cent. of marks in these three subjects.

(b) The Competition is by written Essays on (1) The Civil Law of Scotland, (2) the Criminal Law of Scotland, and (3) Conveyancing, the particular branches of which will be announced at least one year before the competition. The precise subject of each essay will be set on the conclusion of the Graduation Examination in October.

(c) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Next vacancy in October 1902.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

1901. Not awarded.

IV. *Vans Dunlop Scholarship in History.* For Regulations, see under Scholarships in Faculty of Arts. Next vacancy in October 1904.



*V. The Lorimer Travelling Scholarship.*<sup>1</sup>

The Lorimer Travelling Scholarship, of the annual value of about £44, tenable for two years, for the encouragement of the study of the "Law of Nature and Nations" in foreign Law Schools by Students and Graduates in the Faculty of Law, was founded by the Lorimer Memorial Committee and the Association for the better Endowment of the University. The Scholarship is open to Candidates who, during the two years immediately preceding that in which a scholar falls to be appointed, have completed the examinations for a Degree in Law in the University in the following subjects, namely—(1) The "Law of Nature and Nations" (including therein the Philosophy of Law); (2) The Civil Law; and (3) Either (a) Constitutional Law and History, or (b) Political Economy. The foreign Law School or Schools which the Scholar proposes to attend must be previously approved by the Faculty of Law. The Candidate who, in the opinion of the Faculty of Law, passes with most distinction in the examinations for Graduation in Law, in the subjects above set forth, during the two years immediately preceding the election, and who is willing to fulfil the conditions imposed by the Deed of Foundation, will be eligible, consideration being always given to his proficiency in the first of the above-named subjects, and to his knowledge of the modern language or languages spoken in the Law School or Schools where he proposes to study. For Deed of Foundation, see CALENDAR for 1892-93, p. 538. Next Vacancy in July 1904.

1900. *John Watson.*

VI. *Gray Scholarship for Research.*—See under Faculty of Arts.

1901. *J. C. Fenton, M.A.*

*VII. Thow Scholarships.*

These Scholarships, three in number, of the annual value of about £25 each, were founded by the Trustees of the late Miss Christiana Thow of Craigmore, West Ferry, near Dundee, according to the desire of Miss Christiana Thow and her Sister, Miss Margaret Thow, and out of respect to the memory of their Brothers.

The following are the Rules and Regulations applicable to the said Scholarships :—(1) The Scholarships shall be distributed annually, one to the most distinguished student for the Winter Session in the Class of Scots Law at the University of Edinburgh; another to the most distinguished for the Winter Session in the Class of Conveyancing at the said University; and the third to the most distinguished student for the Winter Session in any two of the following Classes at the said University, viz.:—Public Law, Civil Law, and Constitutional Law and History. (2) Each of the Scholarships shall be tenable only for one year by the student in the subject for which it has been bestowed upon him, but the same student may competently obtain one of the Scholarships set apart for the other subjects in a succeeding session,

<sup>1</sup> These Regulations may be altered before the date of next competition.

provided he has the necessary qualification. (3) No Student can hold two of these Scholarships for the same year, although he may have satisfied the conditions in other respects. In the event of any Student being first as regards two of the Scholarships, the Faculty of Law shall determine which Scholarship shall be awarded to him, and which shall be taken by the next most distinguished student. (4) There shall be no restriction as to holding one of these Scholarships along with another Scholarship or Bursary from another source.

1902. *W. S. Colville, M.A.* (Scots Law).  
*A. M. Mackay, M.A.* (Conveyancing).  
*W. Dunbar, B.A.* { (Public Law).  
                               (Civil Law).

### III.—FUNDS FOR SPECIAL STUDY OR RESEARCH.

1. *The William Dickson Travelling Fund.* See under Faculty of Arts.
2. *The Earl of Moray Bequest for the Promotion of Original Research.* See under Faculty of Arts.

### IV.—PRIZES.

I. *The Forensic Prize*, of the value of £10, founded in 1858 by the Forensic Society with the view of encouraging the study of Roman Law, is awarded annually either in July or in October, for the best Essay upon a subject prescribed by the Professor of Civil Law, or, as the result of a Special Examination, as may be found convenient. The subject of the Essay, or the date of the Examination, as the case may be, is announced by the Professor early in the session. It can be competed for only by Students of the Civil Law Class during the preceding year.  
 1901. Not awarded.

II. *The Muirhead Prize*, of about £15, 12s. 6d. annually, is awarded to the Student who gains the first place in the Class of Civil Law, as determined by the results of the periodical examinations during both the Winter and Summer Sessions.

1901. *W. H. Meikle, M.A.*

III. *The Gladstone Memorial Prize*, No XIII., page 204.

SCHOLARSHIPS, BURSARIES, AND UNIVERSITY PRIZES,  
 OPEN FOR COMPETITION IN THE FACULTY OF LAW DURING  
 THE ACADEMIC YEAR COMMENCING 1ST OCTOBER 1902.<sup>1</sup>

### I.—SCHOLARSHIPS.

Where the competition is open to Graduates, their standing will

<sup>1</sup> The values of the Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise or fall of the rate of interest, &c. For further information and for information regarding other Scholarships, Bursaries, and Prizes, &c., see pages 337-351.

be computed from the date of the Graduation Ceremony immediately following the completion of their Law Examinations.

The Vans Dunlop Scholarships are each of £100 per annum, and tenable for three years.

Candidates for a Vans Dunlop Scholarship must enter their names and addresses at the *Matriculation Office*, and produce evidence that they are eligible, on or before the dates specified for each Scholarship. They are required to be Matriculated Students of the year in which the competition takes place.

4. *Vans Dunlop Scholarship in Scots Law and Conveyancing.* No. III., page 349.

The Competition is by written Essays. The subjects of the Essays to be set for this Scholarship will be taken from the following branches of Law:—(1) The Law of Succession and Trust; The History of Criminal Procedure. (2) The Law of Heritable Securities; The Law of Entails. The precise subject of each essay will be set on the conclusion of the Graduation Examination in October 1902. Names to be entered on or before 15th October.

## II.—FUNDS FOR SPECIAL STUDY OR RESEARCH.

1. *The William Dickson Travelling Fund.* See under Faculty of Arts.

2. *The Earl of Moray Bequest for the Promotion of Original Research.* See under Faculty of Arts.

## III.—BURSARIES.

The subjects of examination for first-year Bursaries are Latin and Moral Philosophy, and are the same as the October Examinations in these subjects for M.A. Candidates are required to enter their names at the *Matriculation Office* on or before 1st October. Candidates for the second and third year Grierson Bursaries must apply on or before 15th October, and must state what distinctions they have attained in the Law Classes of the previous year.

1, 2, 3. *Three Grierson Bursaries*, No. I., page 347.

4. *The Cairns Bursary*, No. II., page 347.

5, 6. *Two Sibbald Bursaries*, No. VII., page 207.

7. *A Thomson Bursary*, No. III., page 347.

8. *Renton Bursary*, No. XIII., page 315.

## IV.—PRIZES.

1-3. *Three Thow Scholarships or Prizes*, No. VII., page 350.

4. *The Forensic Prize*, No. I., page 351.

5. *The Muirhead Prize*, No. II., page 351.

6. *The Lord Rector's Prize*, No. 1, page 203.
- 7, 8, 9. *The Trustees of Gray's Prize Essay Fund*, Nos. 7, 8, 9, page 203.
10. *The Gladstone Memorial Prize*, No. 13, page 204.
11. *The Blackie Celtic Prize*, No. 14, page 204.

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The attention of all Bursars in the Faculty of Law is particularly called to the following Regulation :—

Bursars connected with the Faculty of Law must annually attend and perform the work of at least one Class in the Faculty.

Each Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars by the *Dean of the Faculty of Law* after the 15th November ; also at the end of the Session in March. In applying to the Dean for the Certificate in November, Bursars must present to him their Class Cards for the Session, as evidence that they have enrolled in their classes ; and at the end of the Session they must present to him certificates from the Professors to the effect that they have attended with regularity and have performed the work of the Classes. Payments are made by the Factor for the University, Mr Henry Cook, W.S., 61 North Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 17th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—*Bursars and Scholars who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.*

L. J. GRANT, BART., B.A.,  
*Dean of the Faculty of Law.*

# Faculty of Medicine.

Dean—PROFESSOR A. R. SIMPSON, M.D., D.Sc.

*Students who do not intend to graduate in Medicine in this University may attend any of the Classes in the Faculty on payment of the Matriculation and Class Fees. Those who intend to graduate must pass the Preliminary Examination before attendance on any Class will qualify for Graduation. Women are now admitted to Graduation.*

*The Classes in the Faculty will be opened on Tuesday, 14th October, and will meet daily (Saturdays excepted), unless otherwise stated.*

*The Class Fees are collected by the Factor. For the purpose of receiving Fees he will attend at the University for a short period at the beginning of the Winter and Summer Sessions, and Fees not then paid will be taken at his office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for same drawn in favour of the Collector of Class Fees, Edinburgh University.*

*For payment of Class Fees by the Carnegie Trust, see page 157.*

## Programme of Classes.

### WINTER SESSION, 1902-1903.

Classes.	Days of Opening and Hours of Lectures.	Professors.	Class Fees. <sup>1</sup>
Surgery .....	14 Oct., 9 o'cl.	Prof. Chiene, C. B.	£4 4
Materia Medica .....	14 Oct., 2 ,,	Prof. Fraser.....	{ 4 4
Pract. Mat. Medica, } includ. Pharmacy }	15 Oct., ,,		{ 3 3
Physiology .....	14 Oct., 10 ,,	Prof. Schäfer, Dr Milroy and Assistants.....	{ 4 4
Pract. Physiology :—			
Experimental.....	15 Oct., 11-1 ,,		{ 2 2
Chemical .....	12 Jan., 11-12 ,,		{ 1 1
Adv. Pract. Physiol. (Experi. & Chem.)	21 Oct., 3-5 ,,		{ 3 3
Chemistry .....	14 Oct., 10 ,,	Prof. Crum Brown	4 4
Chemistry—Advanced Course .....	6 Jan., 4 ,,	Prof. Crum Brown with Drs Dobbin,	{ 2 2
Practical Chemistry {	1 Dec., 11 and 2 o'cl. }	Marshall, and Taylor. ....	{ 3 3
Midwifery & Diseases of Women & Childr.	14 Oct., 10 o'cl.	Prof. Simpson....	4 4
Advanced Botany .....	14 Oct., 11 ,,	Prof. Balfour.....	{ 2 2 <sup>2</sup>
Prac. Bot. (Advanced)	14 Oct., 11 ,,		{ 3 3 <sup>2</sup>
Pathology .....	14 Oct., 9 ,,	Prof. Greenfield }	4 4
Practical Pathology...	15 Oct., daily }		3 3
Clinical Instruction in the Royal Infirmary <sup>4</sup>	11 daily. . .	{ The Clinical Professors .....	Hospital Ticket. <sup>3</sup>
Clinical Surgery <sup>4</sup> — Royal Infirmary, Mon. & Thurs.	16 Oct., 12 o'cl.	Prof. Annandale	4 4

<sup>1</sup> Fees for second and subsequent attendances, see page 358.

<sup>2</sup> Besides Garden Fee of 5s.

<sup>3</sup> For Fees, see page 358.

<sup>4</sup> Only open to Students holding the Hospital Ticket.

WINTER SESSION, 1902-1903—*continued.*

Classes.*	Days of Opening and Hours of Lectures.	Professors.	Class Fees <sup>1</sup>
Clinical Medicine <sup>7</sup> — Royal Infirmary, } Tues. & Fri. ... }	14 Oct., 12-2 o'clock	Professors Fraser, Greenfield, and Wyllie; and Simp- son on Diseases of Women.....	£ 4 4 <sup>9</sup>
Zoology (Elementary) <sup>2</sup> Do. (Elementary Practical) <sup>2</sup> .....	14 Oct., 2 o'cl. } 14 Oct.	Prof. Ewart. ...	4 4 2 2 <sup>3</sup>
Do. (Advanced) <sup>2</sup> .	14 Oct., 1.30 ,,		3 3 <sup>3</sup>
Anatomy .....	14 Oct., 1 ,,	Prof. Sir William	4 4
Practical Anatomy ...	1 Oct., daily	Turner, K.C.B. {	3 3
Medicine .....	14 Oct., 2 o'cl.	Prof. Wyllie.....	4 4
Public Health (Ad- vanced Course).....	6 Jan., 3 ,,	Professor Hunter Stewart.....	4 4
Lecturers.			
Cl. Instruct. on Dis. of Children at Rl. Hosp. for Sick Children <sup>5</sup> ... (Daily)	22 Oct., & 14 Jan., 11 o'cl.	T. M. Burn-Mur- doch, M.D., and Staff of the Rl. Hosp. for Sick Children .....	2 2 <sup>4</sup>
Vertebrate Morph- ology (with Labora- tory Work).....	14 Oct., 2 ,,	John Beard, D.Sc. ....	3 3 <sup>3</sup>
Comparative Embry- ology .....	6 Jan., 1 ,,		3 3 <sup>4</sup>
Physics <sup>2</sup> .....	14 Oct., 3 ,,	C. G. Knott, D.Sc.	3 3
Regional Anatomy (Anatomical Demon- strations) .....	15 Oct., 9 ,,	David Hepburn, M.D. ....	2 2 <sup>6</sup>
Diseases of the Eye...		G. A. Berry, M.B.	2 2 <sup>47</sup>
Pathol. Bacteriology	21 Oct., 3 ,,	J. Martin Beattie, M.A., M.D.....	3 3 <sup>4</sup>
Diseases of Tropical Climates.....		Andrew Davidson, M.D. ....	2 2 <sup>4</sup>
Clinical Instruct. on Diseases of the Skin <sup>78</sup>	15 Oct., 11 ,, 7 Jan., 11 ,,	W. Allan Jamie- son, M.D.....	2 2

<sup>1</sup> Fees for second and subsequent attendances, see p. 358.

<sup>2</sup> Three Months' Course.

<sup>3</sup> Besides charge of 10s. for Laboratory Expenses.

<sup>4</sup> Five Shillings University Entrance-Fee for Non-Matriculated Students See pages 27-29.

<sup>5</sup> Two courses, each qualifying. Only open to Students holding the Hospital Ticket. See page 358.

<sup>6</sup> When taken along with Practical Anatomy, £1, 1s.

<sup>7</sup> Only open to Students holding the Hospital Ticket.

<sup>8</sup> Twice a week.

<sup>9</sup> Fees collected by Class Tutor.



## SUMMER SESSION, 1903.

The Classes will be opened as follows, and will meet daily (Saturdays excepted), unless otherwise stated.

Classes.	Days of Opening and Hours of Lectures.	Professors.	Class Fees. <sup>1</sup>
Elementary Botany.....	1 May, 8 o'cl.	Prof. Bayley Balfour.	£4 4 <sup>2</sup>
Practical Botany.....	1 May, 9 „		2 2 <sup>2</sup>
Field Demonstrations on <i>Saturdays</i> .			
Operative Surgery and Surgical Appliances	14 April	Prof. Chiene, C.B.	3 3
Forensic Medicine.....	1 May, 9 „	Prof. Sir Henry D. Littlejohn	4 4
Public Health.....	1 May, 2 „	Prof. Hunter	2 2
Do., Lab. Courses <sup>6</sup> ...		Stewart.....	4 4
Prac. Materia Medica (incl. Pharmacy)....	1 May, 8 & 2 „	Prof. Fraser.....	3 3
Practical Pathology...	1 May, 10 „	Prof. Greenfield.	3 3
Obstetrical and Gynecol. Operations— ( <i>Tues. &amp; Fri.</i> )	1 May, 10 „	Prof. Simpson.	3 3
Pract. Physiol. (Histol.)	1 May, 9-11 and 2-4	Prof. Schäfer,	2 2
Advanced Pract. Phys. (Histol.) .....		Dr Milroy and Assistants	2 2
Zoology (Elementary)..	1 May, 12 o'cl.	Prof. Ewart.	4 4
Zoology (Elem. Prac.)	1 May		2 2 <sup>3</sup>
Natural Hist. Labor...	1 May, 2 „		6 6
Invertebrate Zoology...	1 May	J. H. Ashworth,	2 2
Do., with Lab. Work)		D.Sc. ....	3 3 <sup>3</sup>
Clinical Surgery, <sup>4</sup> Royal Infir. ( <i>Mon. &amp; Thur.</i> )	4 May, 12 „	Prof. Annandale.	3 3
Clinical Medicine, <sup>4</sup> Royal Infirmary ( <i>Tues. &amp; Fri.</i> ) .....	1 May, 12 to 2	Professors Fraser, Greenfield, and Wyllie; and Prof. Simpson on Dis. of Women.	3 3
Clinical Instruction in the Royal Infirmary.	12 daily.	The Clinical Professors.	Hospital Ticket. <sup>5</sup>
Physics .....	1 May, 2 o'cl.	Prof. Macgregor	3 3
Chemistry (Organic)....	1 May, 1 „	Prof. Crum Brown	2 2

<sup>1</sup> Fees for second and subsequent attendances, see page 358.

<sup>2</sup> Besides Garden Fee of 5s.

<sup>3</sup> Besides charge of 10s. for Laboratory Expenses.

<sup>4</sup> Only open to Students holding the Hospital Ticket.

<sup>5</sup> See Fees, page 358.

<sup>6</sup> For Fees, &c., see page 361.



SUMMER SESSION, 1903—continued.

Classes.	Days of Opening and Hours of Lectures.	Professors.	Class Fees. <sup>1</sup>
Chemistry (Practical) ..	1 May, 2 o'cl.	Prof. Crum Brown & Assistants.....	£3 3
Anthropology— ( <i>Tues., Wed., Th.</i> )	6 May, 1 ,,	Prof. Sir W. Turner, K.C.B.	2 2 <sup>9</sup>
Practical Anatomy.....	1 May, <i>daily</i> .	Prof. Sir W. Turner, K.C.B. and Demonstrators. Lecturers.	2 2
Diseases of the Eye <sup>8</sup> ...	5 May, 9 o'cl. 6 May, 10 ,,	Geo. A. Berry, M.B.....	2 2 <sup>2 3</sup>
Cl. Instruct. on Dis. of Children, at Rl. Hosp. for Sick Children....	6 May, 11 ,,	T. M. Burn-Murdoch, M.D. and staff of the R. Hosp. for Sick Children	2 2 <sup>2 3</sup>
Regional Anatomy (Anatomical Demonstrations) <sup>4</sup> .....	1 May, 11 <i>daily</i> .	David Hepburn M.D.....	...
Diseases of the Larynx, Ear, and Nose..... ( <i>Mon. &amp; Thurs.</i> )	4 May, 11 o'cl.	P. M'Bride, M.D., C.M..	2 2 <sup>3</sup>
Mental Diseases, with Cl. Instruct. at Morningside Asylum ( <i>Mon. Wed. &amp; Frid.</i> ).....	4 May, 3 ,,	Thos. S. Clouston, M.D. ....	2 2 <sup>2</sup>
Diseases of Tropical Climates .....		Andrew Davidson, M.D.....	2 2 <sup>2</sup>
Experimental Pharmacology <sup>5</sup> .....	1 May.	W. C. Sillar, M.B., B.Sc...	3 3
Diseases of the Skin <sup>6 7</sup>	1 May, 11 ,,	W. Allan Jamieson, M.D.....	2 2
Path. Bacteriology <sup>5</sup> ....	1 May. 3 {	J. Martin Beattie, M.A., M.D.....	3 3

<sup>1</sup> Fees for second and subsequent attendances, see page 358.

<sup>2</sup> Five Shillings University Entrance-Fee for Non-Matriculated Students. See page 29.

<sup>3</sup> Only open to Students holding the Hospital Ticket.

<sup>4</sup> Free when taken along with Practical Anatomy.

<sup>5</sup> Two hours a day three times a week.

<sup>6</sup> Twice a week.

<sup>7</sup> Only open to students holding the Hospital Ticket.

<sup>8</sup> The class will meet in two sections.

<sup>9</sup> When taken with Practical Anatomy, £1, 1s.

## FEES FOR SECOND AND SUBSEQUENT ATTENDANCES.

Second attendances on £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s.; subsequent attendances free. Second attendances on £2, 2s. Courses, no reduction; third or subsequent attendances, £1, 1s. Second or subsequent attendances on Class of Diseases of Children, £1, 1s. Clinical Surgery: nine months' ticket, if taken primarily, £6, 6s. (perpetual ticket); three months' after a six months' Course, £3, 3s.; three months' primary entry, £3, 3s.; second three months, £2, 2s.; third three months, £2, 2s. Perpetual ticket for initial payment for any Course in the Faculty, £6, 6s. Practical Classes and Laboratories, no reduction.

## OPPORTUNITIES FOR HOSPITAL PRACTICE.

*Royal Infirmary, Edinburgh.*—At 11 o'clock daily. 780 beds. Perpetual Ticket, in one payment, £12; Annual Ticket, £6, 6s.; Six Months, £4, 4s.; Three Months, £2, 2s. Separate payments, amounting to £12, 12s., entitle to a Perpetual Ticket.

*Royal Edinburgh Hospital for Sick Children.*—120 beds, of which 41 are reserved for Surgical Cases. Hospital Ticket for one year, £1, 1s., entitling Student to attend the General Practice of the Hospital, including the Out-Patient Department.

*Edinburgh Royal Maternity and Simpson Memorial Hospital.*—40 beds available for Clinical Instruction. The fees charged are:—For each Six External Cases, £1, 1s.; for three months' course of Internal Clinical Instruction, £1, 1s.

*City Hospital, Edinburgh.*—For Fevers and Infectious Diseases. Total number of beds, 400. There is at present no fee charged.

*Royal Edinburgh Asylum for the Insane.*—500 beds, available for Clinical Instruction to members of the Class of Mental Diseases. The fee for the course is £2, 2s.

*Number of beds available for the Clinical Instruction of Students of the University, 1840.*

MATRICULATION, &c. See pages 27-29.

## CLASS SESSIONS.

There are Two Sessions in each year, viz. :—

1. The Winter Session which opens on Tuesday, 14th October 1902, and closes on Friday, 20th March 1903. Practical Anatomy begins on Wednesday, 1st October 1902, and continues till the end of March.

The Classes will meet for the last time before the Christmas Vacation on Friday, 19th December 1902, and will reassemble on Tuesday, 6th January 1903.

II. The Summer Session, which opens on Friday, 1st May, and closes on Wednesday, 15th July 1903. Operative Surgery begins Tuesday, 14th April. The Practical Anatomy Rooms remain open till the end of July.

### LABORATORIES, MUSEUMS, &c.

The University contains the following Laboratories and Museums, several of the latter belonging in part to the Professors of the respective subjects :—

#### I. LABORATORIES.

THE PHYSICAL LABORATORY,<sup>1</sup> established with the view of affording Students a practical knowledge of the construction and use of physical apparatus, and the mode of conducting experimental inquiries, is open daily from 10 to 3, under the superintendence of the Professor.

THE ROYAL BOTANIC GARDEN LABORATORY, open daily for the practical study of plants and for research, under the superintendence of the Professor, assisted by A. W. Borthwick, B.Sc., and Wm. Smith, M.A.

PHYSIOLOGICAL LABORATORY, for the prosecution of Physiological Research, and for the study of Practical Physiology, open daily, under the superintendence of the Professor, assisted by T. H. Milroy, M.D., B.Sc. ; P. T. Herring, M.D. ; John Malcolm, M.D., and Sutherland Simpson, M.D., B.Sc.

PRACTICE OF PHYSIC LABORATORY, for the study of Medicine, and for research in connection with the Practice of Physic, open daily, under the superintendence of the Professor, assisted by James G. Cattanach, M.B., C.M.

DISSECTING ROOMS, open daily under the superintendence of Professor Sir William Turner, K.C.B., assisted by David Hepburn, M.D. ; David Waterston, M.D., C.M. ; E. B. Jamieson, M.B., Ch.B. ; Henry Wade, M.B., Ch.B. ; and other assistants. Open 1st October 1902, and 1st May 1903 ; and continue open till the end of March and of July for the Winter and Summer Sessions respectively.

THE CHEMICAL LABORATORIES<sup>2</sup> (distinct from the Practical Chemistry Class Room), have accommodation for forty Students. They contain the necessary equipment for a complete course of instruction in the various branches of chemical work and for research. The instruc-

<sup>1</sup> Fees—Three months' Course of two hours daily, £2, 2s. ; whole Academic Year, two hours daily, £4, 4s. ; whole Academic Year for hours during which the Laboratory is daily open, £6, 6s.

<sup>2</sup> Fees.—*Whole day*—Winter Session, £10, 10s. ; or Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half day*—Winter Session, £6, 6s. ; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order. Students who are not Matriculated may attend the Chemical Laboratory on payment of the Entrance Fee of 5s., in addition to the Laboratory Fee.

tion given includes complex qualitative analysis, quantitative, inorganic and organic analysis (with special courses in gas analysis, assaying, &c.), and chemical preparations. The training is suited not only for students studying for Science and Arts Degrees or for the Examinations of the Institute of Chemistry, but also for persons desiring to qualify themselves as analysts, technical chemists, &c. The Chemistry Department will be closed on 20th March and 15th July for the Winter and Summer Sessions respectively.

The Laboratories are open from 9.30 to 4.30 daily during the Winter and Summer Sessions, and are under the charge of Professor Crum Brown, assisted by Leonard Dobbin, Ph.D.; Hugh Marshall, D.Sc.; W. W. Taylor, M.A., D.Sc.; James Kerr, B.Sc., and Alex. D. White, B.Sc.

**OBSTETRICAL AND GYNECOLOGICAL LABORATORY**, for research and study of practical work, under the superintendence of the Professor, assisted by G. F. Barbour Simpson, M.B., Ch.B.

**TUTORIAL CLASS OF CLINICAL MEDICINE**, in the Wards of the Royal Infirmary, by J. G. Cattanach, M.B., C.M.; Edwin Matthew, M.B., Ch.B.; and George Lyon, M.B., Ch.B.; with G. F. Barbour Simpson, M.B., Ch.B., for Diseases of Women: under the superintendence of the Clinical Professors.

**NATURAL HISTORY LABORATORIES**, for study of the structure and development of Invertebrate and Vertebrate forms, open daily, under the superintendence of the Professor, assisted by J. Beard, D.Sc., Ph.D., and J. H. Ashworth, D.Sc.<sup>1</sup>

**MATERIA MEDICA LABORATORIES**, for the study of Practical Materia Medica and Practical Pharmacy, and for Pharmacological and Pharmaceutical research, open daily, under the superintendence of the Professor, assisted by William C. Sillar, M.B., C.M., B.Sc., and E. F. Bashford, M.B., Ch.B.

**TUTORIAL CLASS OF CLINICAL SURGERY AND SURGICAL PATHOLOGY**, in the Infirmary, by R. Black Purves, M.B., C.M., F.R.C.S.E., and the Resident Surgeons, under the superintendence of the Clinical Professor.

**TUTORIAL CLASS IN MIDWIFERY**, by G. F. Barbour Simpson, M.B., Ch.B., under the superintendence of the Professor.

**FORENSIC MEDICINE LABORATORY** under the superintendence of the Professor, assisted by T. W. Drinkwater, Ph.D.

**THE JOHN USHER INSTITUTE OF PUBLIC HEALTH.**—The Students' Laboratories are open daily from 9.30 to 4.30 during the Winter and Summer Sessions under the direction of Professor Hunter Stewart assisted by J. Buchanan Young, M.B., D.Sc. (P.H.). The Laboratories are fully equipped for a complete course of instruction in bacteriological, chemical and meteorological work in relation to the prevention of disease. The training is suited not only for students

<sup>1</sup> Fees—Winter Session, £10, 10s.; Summer Session, £6, 6s.

preparing for the degree of B.Sc. in Public Health, but also for those preparing for Diplomas in Public Health granted by the different licensing boards.<sup>1</sup>

There are also several research rooms, for research in bacteriology and bacteriological chemistry under the direction of the Professor and his Assistants. The Laboratories open 14th October 1902 and 1st May 1903.

**SURGICAL LABORATORY**, divided into two parts—(a) General Surgical Pathology, (b) Bacteriology,—is utilised for teaching Systematic Surgery, and every facility is afforded for investigation, under the superintendence of the Professor, assisted by George L. Chiene, M.B., C.M., F.R.C.S.E., and Wm. J. Stuart, M.A., M.B., Ch.B.

**PATHOLOGICAL LABORATORY**, for the study of Pathological Anatomy and for Pathological Research, including Histological and Bacteriological Departments, under the superintendence of the Professor, assisted by James Martin Beattie, M.D., and George Lyon, M.B., Ch.B.

**THE ROYAL EDINBURGH ASYLUM** is open to members of the Class of Mental Diseases for Practical Instruction, under the superintendence of the Physician-Superintendent.

**PRACTICAL INSTRUCTION** in the use of the Ophthalmoscope and in the detection of errors of refraction is given to members of the Class of Diseases of the Eye at the Eye Wards of the Royal Infirmary, under the Superintendence of the Lecturer.

**DISEASES OF THE LARYNX, EAR AND NOSE**.—In connection with this subject Tutorial Instruction in the Practical Methods of examining patients and in the use of instruments and appliances is given by Dr Logan Turner at suitable hours.

**DISEASES OF THE SKIN**.—Tutorial Instruction in the Practical Methods of examining patients, of using the microscope in the diagnosis of cutaneous affections, in the employment of instruments and the application of remedies, is given at suitable hours, by Dr Norman Walker.

**DISEASES OF CHILDREN**.—Clinical Instruction in the wards, out-patient department, and *post-mortem* room at the Royal Hospital for Sick Children.

## II. MUSEUMS. See pages 57-59.

<sup>1</sup> Fees.—*Whole-day*.—Winter Session, £10, 10s.; or Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half-day*.—Winter Session, £6, 6s.; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order. Students who are not Marticultated may attend the Public Health Laboratory on payment of the entrance fee of 5s. in addition to the Laboratory fees.

## Courses of Lectures, &c.

1902-1903.

### I. BOTANY.

PROFESSOR BALFOUR.

*Summer Session, 1903.*

1. LECTURES.—The Course is a general one—Organographical, Physiological, and Taxonomic. Lectures are given every Monday, Tuesday, Wednesday, Thursday, and Friday.

2. PRACTICAL CLASS.—In this class opportunity is given for the examination of microscopic structure of plants, and for the study of life-histories of plants illustrating the lectures. It is conducted by the Professor and Assistants.

3. EXCURSIONS. — Excursions are made on Saturdays for the practical study of plants in the fields.

The Royal Botanic Garden, with the Botanical Museum and Herbarium, are open daily for the examination of living as well as preserved specimens of plants.

### II. NATURAL HISTORY.

PROFESSOR EWART.

1. LECTURES ON ZOOLOGY.—*Winter Session.*—The first part of the course will treat of the Principles of Biology as illustrated by the Life-History, Morphology, and Physiology of one of the Vertebrata. The Distinctive Characters of the Chordata and the structure, habits, &c., of a series of vertebrate types will next be considered. The rest of the course will be chiefly devoted to : (1) Leading types of Invertebrates ; (2) Structure and life-history of the more important animal parasites ; and (3) Elements of Embryology, Classification, and Geographical Distribution of Animals.

*Summer Session.*—An Elementary Course, qualifying for the First Professional and the First B.Sc. Examinations, and *pro tanto* for graduation in Arts, will be given by the Professor, during the Summer Session 1903.



2. ELEMENTARY PRACTICAL ZOOLOGY.—*Winter and Summer Sessions.*—In these Classes Students have the opportunity of studying practically the more important types described in the Lectures, amongst others :—Amœba, Paramœcium, Hydra, Hirudo, Arenicola, Helix, Astacus, Raia, Rana, Columba, and Lepus.

3. ADVANCED COURSES.—These Courses are intended to assist students preparing for the Degree of B.Sc. in Zoology.

(1) The Intermediate Course will be given during the Summer Session by Dr J. H. Ashworth, University Lecturer in Invertebrate Zoology, and will be devoted to the Zoology of some portion of the Invertebrata. This class is prescribed for the Second B.Sc. Examination in Zoology and Comparative Anatomy.

(2) During the first half of the Winter Session an Advanced Course of Lectures and Laboratory work will be given by Dr Beard, University Lecturer on Vertebrate Zoology, on the Comparative Morphology of the Vertebrata. (See Faculty of Science.)

The Laboratory work will extend over the first half of the Winter Session and the Summer Session.

RESEARCH WORK.—The Laboratories are also available during both Sessions for research. For Regulations, see page 121.

#### COMPARATIVE EMBRYOLOGY.

#### VERTEBRATE MORPHOLOGY.

J. BEARD, D.Sc.

For Synopses, see under Faculty of Science.

### III. CHEMISTRY.

PROFESSOR CRUM BROWN, WITH DR DOBBIN AND DR MARSHALL, *Lecturers*, AND ASSISTANTS.

1. LECTURES—In the Lectures the general laws of chemical action are explained and illustrated.

The chief non-metallic elements and their more important compounds are discussed in detail. The metals and the different



series of metallic salts are considered more generally, details being given in the case of the more important substances.

The principles upon which the classification of organic substances is based are explained, and the properties of the chief groups illustrated by means of examples.

Tutorial Classes, once a week, are conducted by Dr Dobbin.

A course of 50 lectures on Organic Chemistry is delivered in Summer.

A Class for Advanced Students is held in Winter. The subject for the Winter of 1902-1903 is not yet fixed, but will be announced in due course.

2. LABORATORY.—In the Laboratory, Students who can devote several hours each day to work, are taught Chemical Analysis (including Mineral Analysis, Organic Analysis, and Gas Analysis), the preparation of chemical substances, and the examination and determination of their properties. Full equipment for instruction in metallurgical work and assaying has recently been provided. Students who are sufficiently advanced in such practical work may engage in the investigation of chemical problems under the superintendence of the Professor and the chief assistants.

3. PRACTICAL CLASSES.—The work of these classes consists in the study of the preparation and reactions of the commoner Salts.

*Class-Book.*—Notes on Reactions of Salts (Thin).

Students who have worked at least three months in the Laboratory need not attend the class of Practical Chemistry before appearing for the First Professional Examination in Medicine, for the First B.Sc. Examination, or for Examination in Chemistry for M.A.

#### IV. PHYSICS.

PROFESSOR MACGREGOR (*Summer*).

CARGILL G. KNOTT, D.Sc. (*Winter*), *Lecturer*.

The subjects embraced in the Course of Physics are :—

1. Properties of Matter—including Statics and Kinetics of

Solid, Liquid, and Gaseous Bodies, Inertia, Gravitation, Molecular Forces, &c.

2. Sound, and Wave-propagation in general, Intensity, Pitch, and Quality of Musical Sounds, Harmonics, Concords, &c.

3. Heat, its Nature, Effects, Measurement, Transference, and Transformations—Measurement of Temperature and of Absolute Temperature ; Thermo-dynamics.

4. Light (1) Geometrical Optics, Speed of Light, Laws of Reflection and Refraction ; Construction and Effects of Mirrors, Prisms, Lenses, and Microscopes ; Images, Conditions of Distinct Vision ; (2) Physical Optics, Interference, Dispersion, Diffraction, Double Refraction, Polarization, Spectrum Analysis.

5. Electricity, including Frictional and Voltaic Electricity, Thermo- and Magneto- Electricity, Electro-Dynamics, and Magnetism, with their practical applications. Measurements of Potential, Electromotive Force, Current, &c., Batteries, Dynamos, Electrometers, Galvanometers, Voltameters, &c.

Books of reference : Knott's *Physics* ; Daniell's *Physics for Medical Students* ; Watson's *Physics*.

## V. ANATOMY.

PROFESSOR SIR WILLIAM TURNER, K.C.B.

### *Winter Courses.*

I. LECTURES ON ANATOMY, at 1 P.M.—It is intended in this Course to bring before the Student, in a systematic manner, the structure of the Human Body. The different systems and organs will be described, both in the more obvious arrangements and relations of parts which can be examined by the naked eye, and in their more minute or microscopic structure. The Course includes, therefore, both Textural or General Anatomy and Descriptive Anatomy. The Lectures are illustrated by recent dissections, by wet and dry preparations, by a large collection of Osteological specimens, and by drawings and diagrams. Structures too minute to be recognised by the naked eye are demonstrated under the Microscope.

To assist the Junior Members of the Lecture Class to acquire a knowledge of Osteology, &c., Tutorial Demonstrations on the Bones and Muscles will be given during the earlier months of the Session without additional fee. All the members of this class have access to a systematically arranged series of osteological specimens and of models. Written Examinations for both Junior and Senior Students are held periodically during the Session.

*Text-Books.*—Gray's "Anatomy," or Cleland and Mackay's "Anatomy," Quain's "Elements of Anatomy," Holden's "Osteology."

2. PRACTICAL ANATOMY, under the superintendence of the Professor, aided by the Demonstrators, David Hepburn, M.D., C.M.; David Waterston, M.A., M.D., C.M.; E. B. Jamieson, M.B., Ch.B.; Henry Wade, M.B., C.M., and by several other assistants. Examinations of both Junior and Senior Students on dissected parts are conducted by the Demonstrators and the Professor. Special tutorial Demonstrations will be given to Senior Students on the joints, brain, organs of special sense, and other viscera.

This Course will commence on 1st October. The Dissecting-rooms are open from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to noon. The Mackenzie Bursaries are awarded to members of this Class for proficiency in dissection.

*Text-Books.*—"Demonstrations of Anatomy," by Ellis, or Heath's "Practical Anatomy," or Holden's "Manual of the Dissection of the Human Body," or Cunningham's "Manual of Practical Anatomy."

#### REGIONAL ANATOMY (ANATOMICAL DEMONSTRATIONS).

DAVID HEPBURN, M.D., *Lecturer.*

In this Course, which is conducted in the Theatre, the structure of the human body is displayed and demonstrated topographically, from the surface inwards.

This Class meets about ninety times, and non-competitive Written Examinations are held monthly during the Session.

*Summer Courses.*

PRACTICAL ANATOMY.

PROFESSOR SIR WILLIAM TURNER, K.C.B.

This Course, beginning on 1st May, is the same as in Winter. The Rooms are open from 9 A.M. to 5 P.M.; on Saturdays from 9 A.M. to noon. Examinations are conducted on dissected parts by the Professor and by the Demonstrators, David Hepburn, M.D., C.M.; D. Waterston, M.A., M.D., C.M.; E. B. Jamieson, M.B., Ch.B.; and Henry Wade, M.B., Ch.B., and other assistants, and the joints, brain, and organs of sense will be specially demonstrated.

REGIONAL ANATOMY (ANATOMICAL DEMONSTRATIONS).

DAVID HEPBURN, M.D., *Lecturer.*

This Course, open without additional Fee to those engaged in Practical Anatomy in the Summer, will consist of demonstrations on some special departments of Anatomy.

VI. PHYSIOLOGY.

PROFESSOR SCHÄFER, WITH DR T. H. MILROY, *Lecturer*,  
AND ASSISTANTS.

SYSTEMATIC LECTURES.

Course of about 100 Lectures and Demonstrations, held in Winter :—

The Courses in Physiology and Practical Physiology embrace the study of the minute Structure, Composition, and Functions of the Tissues and Organs of the Body.

*Text-Books.*—*Elementary.*—Starling's "Elements of Physiology" or "Halliburton's Physiology," Schäfer's "Essentials of Histology." *More advanced.*—Waller's "Physiology," Stewart's "Physiology," Foster's "Physiology," Howell's "Text-Book of Physiology," Schäfer's "Advanced Text-Book of Physiology," Parts of "Quain's Anatomy."

## PRACTICAL PHYSIOLOGY.

This Course is divided into three sections—

1. *Experimental Physiology*, in which every student performs the chief experiments illustrating the functions of muscle, nerve, the heart, &c., and records the results by graphic methods.

This Class is held in the Winter Session.

*Text-Book.*—Schäfer's "Practical Physiology."

2. *Practical Chemical Physiology*, in which every student performs the qualitative and quantitative analysis of the Urine in its normal and abnormal conditions, with special reference to clinical work, and such practical work at the Chemistry of Proteids and Carbohydrates, Blood, Milk, Bile, and Digestion, as is possible in a class.

This Class is held in the Winter Session.

*Text-Book.*—Halliburton's "Essentials of Chemical Physiology."

3. *Practical Histology*, in which every Student prepares, examines, and preserves for himself most of the tissues and organs of the body. Each student is provided with a microscope, and all reagents, but it is an advantage for a student to bring his own microscope, provided it is a sufficiently good one. The Professor or Assistants should be consulted as to the best kind of microscope to be obtained.

*Text-Book.*—Schäfer's "Course of Practical Histology."

This Class is held in Summer.

## ADVANCED PRACTICAL PHYSIOLOGY.

PROFESSOR SCHÄFER, T. H. MILROY, M.D., B.Sc., *Lecturer*, AND ASSISTANTS.

See Synopsis under Faculty of Science.

## PHYSIOLOGICAL RESEARCH.

The Physiological Laboratory is open daily for the prosecution of Research. Application must be made to the Professor.

## VII. MATERIA MEDICA.

PROFESSOR THOMAS R. FRASER.

Materia Medica comprises the subjects of pharmacognosy, pharmacy, pharmacology, and therapeutics, diet, remedial uses of electricity and galvanism, heat and cold, climate, &c. Instruction in Materia Medica is given in (A) a course of 100 Lectures during the Winter Session, and in (B) Practical Classes during the Summer Session, and of equivalent duration during the Winter Session.

A.—LECTURES ON MATERIA MEDICA—This course includes the natural history, sensible and chemical properties, physiological action (or pharmacology), therapeutical uses, and modes of administering remedies, ordinarily so called. Such remedies consist of (*a*) inorganic substances; (*b*) chemical products; (*c*) vegetable substances; (*d*) animal substances. Although formerly comprised in the course of instruction in Materia Medica, the remedial uses of Diet, Electricity, Climate, &c., cannot now be taught with any advantage in this course, as, under the New Medical Ordinances, the study of Materia Medica is required to be completed before the student has entered upon the study of the diseases to which the above are applicable.

B.—PRACTICAL CLASSES.—*Practical* instruction is given in the following subjects, which cannot satisfactorily be taught in lectures:—1. Pharmacy, or the processes for obtaining the pharmaceutical preparations of drugs. 2. Prescription-writing. 3. Dispensing, or the making up of medicines in forms suitable for administration in disease.

It is recommended that the Practical Class be attended before the lectures on Materia Medica. Practical classes are taught in the Summer Session daily, at such hours as are found most convenient. A winter class will also be formed in October.

### RESEARCH LABORATORIES.

The above laboratories will be open daily for research on the pharmacological action and chemical composition of medicinal

substances, under the superintendence of the Professor and his assistants. Application to be made to the Professor.

## EXPERIMENTAL PHARMACOLOGY.

W. C. SILLAR, M.B., C.M., B.Sc., *Lecturer.*

This course consists of (1) practical instruction in the methods employed in pharmacological research and (2) the experimental study of the pharmacological action of a number of typical medicinal substances.

The Course is adapted for students who desire a practical knowledge of pharmacology, and who have attended the Class of *Materia Medica*.

Previous attendance at the Class of Advanced Practical Physiology is strongly recommended.

The Course will commence in May.

## VIII. PATHOLOGY AND MORBID ANATOMY.

PROFESSOR GREENFIELD.

This Course includes General Pathology, General Pathological Anatomy and Histology, and Systematic Morbid Anatomy :—

1. General Pathology (including General Pathological Anatomy), *i.e.* the study of the processes of disease, &c. Under this head are considered Degenerative Processes, Inflammation, Repair, Morbid Growths, &c.

2. General Etiology is treated in fuller detail with reference to Parasitic and Infective Diseases, and includes Bacteriology and methods of bacteriological research.

3. Systematic Morbid Anatomy and Histology—a study of the more important diseases of the principal systems and organs of the body.

In illustration of the lectures, there are frequent naked eye, microscopic, and lantern demonstrations.



### PRACTICAL PATHOLOGY.

Classes for Practical Instruction in MORBID ANATOMY and PATHOLOGICAL HISTOLOGY are conducted in the Pathological Laboratory—microscopes and other necessary apparatus being supplied. The Course consists of—1st. Naked Eye Demonstrations; 2nd. Histological investigation and preparation of Morbid Structures and Organs; 3rd. Elementary Bacteriology.

In Winter the class meets five times a week, from the beginning of the Session till the end of January; in Summer, five times a week, from the beginning of May till the end of the Session.

The Laboratory is also open daily from 10 A.M. till 4 P.M. for Pathological Research, under the Professor and his Assistants.

### IX. FORENSIC MEDICINE.

PROFESSOR SIR HENRY DUNCAN LITTLEJOHN.

#### MEDICAL EVIDENCE GENERALLY.

(1) Documentary—(2) Oral—(3) Experimental — Examination of the living; identity; examination of the dead; identity; cause of death; exhumations, autopsies.

#### MEDICAL EVIDENCE SPECIALLY.

*Questions affecting Health or Life.*—(1) Assaults and Homicide—Wounds and other external injuries; asphyxia. Starvation. Heat and cold. Poisons—(2) Suicide—(3) Offences against Chastity—Rape, &c.; concealment of pregnancy; criminal abortion; infanticide—(4) Malpraxis and Neglect of Duty.

*Questions affecting Civil Rights or Social States.*—Marriage and Divorce. Impotence and sterility. Live birth. Survivorship. Insanity. Feigned diseases.

*Text-Books.* — Taylor's "Medical Jurisprudence," Guy's "Principles of Forensic Medicine."

## X. PUBLIC HEALTH.

PROFESSOR HUNTER STEWART.

The Course consists of Thirty Lectures and Demonstrations, and embraces the following :—

1. General consideration of pathogenic and non-pathogenic micro-organisms—Their nutrition—The effects of heat, light, and chemical substances—Toxins and anti-toxins.

2. *Air, Climate and Soil.*—Variations in the chemical and bacteriological constituents and meteorological condition of the atmosphere as caused by seasonal and local conditions—Climate as determined by winds, temperature, moisture and altitude—Healthy and unhealthy climates—Sanatoria—Soil as affecting health.

3. *Water Supply.*—Sources—Filtration—Storage—Causes of contamination.

4. *Habitation as affecting Health.*—Site and exposure—The dwelling—Air-space—Ventilation—Sewage and refuse removal and disposal—Sanitary fittings.

5. *Foods.*—Milk—Animal foods—Cereal foods—Adulteration—Preserved foods—Food-poisoning.

6. Vital statistics, and notification of infectious diseases.

7. Causes of the occurrence and spread of the more commonly met with infective diseases—Means of prevention—Isolation hospitals—Disinfection of clothing, of rooms, and of emanation from the sick.

8. School hygiene.

9. Disposal of the dead.

10. *Research Laboratories in the John Usher Institute of Public Health.*—Several research rooms have been fitted up in the Institute for research in Bacteriology and Bacteriological Chemistry under the direction of the Professor, assisted by J. Buchanan Young, M.B., D.Sc. (Public Health). Application to be made to the Professor.

## XI. PRACTICE OF MEDICINE.

PROFESSOR WYLLIE.

The Course of Instruction comprises Lectures on the ætiology, morbid anatomy, clinical history, diagnosis, prognosis, and treatment of—

I. General diseases.

II. The diseases of the different systems and organs of the body.

It is intended that each Course shall be, as far as possible, a complete review of the present aspects of the Principles and Practice of Medicine.

The Course is illustrated by specimens of morbid anatomy and by numerous drawings, diagrams, and charts from the Anatomical Museum, and from the Professor's private collection.

### TUTORIAL CLASS.

Practical instruction in connection with the Course is given to the members of the Class by the Assistant.

*Text-Books.* — Fagge's, Roberts's, Bristow's, Osler's, or Frederick Taylor's "Practice of Medicine."

### MENTAL DISEASES.

THOMAS S. CLOUSTON, M.D., *Lecturer.*

This Course consists of—

1. Systematic Lectures in the University during the Summer Session on the Classification, Symptoms, Causes, and Treatment of Mental Diseases.

2. Pathological demonstrations, naked eye, lantern, and microscopic, in the University and at the Royal Asylum, Morningside, of the Morbid Anatomy of Insanity. Students will have an opportunity of original investigation in the Pathological Museum of the Asylum.

3. Clinical instruction at the Royal Asylum, Morningside (West House), in all the forms of Mental Disease. Students

have the opportunity of personally coming in contact with and examining the cases, so as to learn the modes of managing and dealing with patients labouring under Mental Disease, and they are exercised in the diagnosis of Insanity and the drawing up of certificates; the aim being to enable them to recognise its early stages, to distinguish its varieties, to adopt suitable treatment, and to advise the relatives as to sending the patient to an asylum. There is a clinical field of 500 beds, comprising all the wards except those for private patients. This part of the course extends through the Summer and the last month of the Winter Session.

4. Instruction in regard to the medico-legal, hereditary, educational, and social relations of Mental Disease, and on its bearings and significance in ordinary medical practice.

There are Free Clinical Clerkships, tenable for three months, in the Royal Edinburgh Asylum, and in several other Asylums, in connection with the class.

*Text-Books.*—Dr Clouston's "Clinical Lectures on Mental Diseases," "Macpherson's Mental Afflictions." The Pathology of Insanity by Dr W. Ford Robertson. Maudsley's "Pathology of the Mind," Bevan Lewis' "Text-Book of Mental Diseases."

## XII. SURGERY.

PROFESSOR CHIENE, C. B.

### *Winter Session.*

1. *Lectures.* This Course is devoted to a systematic consideration of the Principles and Practice of Surgery. Each course is intended to embrace, as far as possible, a complete view of the present aspects of the Science and Practice of Surgery.

Written examinations are held at stated periods, and at the end of the Session a practical examination is held on the work of the Tutorial Classes.

2. *Tutorial Instruction*, at hours most convenient for the students, includes—

(a) *Practical Instruction* in *Bandaging* and the *Treatment of Frac-*

*tures and Dislocations* on the living subject. This class is divided into sections for Senior and Junior Students.

(b) Special Demonstrations to Senior Students on

(1) Surgical Anatomy.

(2) Surgical Pathology.

(3) Surgery of the Ear.

These Demonstrations are illustrated by museum specimens and lantern slides.

### *Summer Session.*

The Summer Session is devoted to the Practical Aspects of Surgery. Special attention is given to Surgical Anatomy and Operative Surgery. The class meets in April, May, and June. Oral examinations and tutorial instruction in the Treatment of Fractures and Dislocations, and in the uses of surgical instruments, form a special part of the course. Special demonstrations on Surgical Pathology.

The Surgical Laboratory for (1) Surgical Pathology; and (2) Bacteriology, is open daily for original work during the Winter and Summer Sessions, under superintendence of the Professor, assisted by George L. Chiene, M.B., C.M., F.R.C.S.E., and Wm. J. Stuart, M.A., M.B., Ch.B. Applications to be made to the Professor.

*Text-Books—Winter Session.*—The Professor's "Lectures on the First Principles of Surgery"; Keen and White's Text-Book of Surgery; Da Costa's "Manual of Modern Surgery." *Summer Session.*—The Professor's "Lectures on Surgical Anatomy," and Joseph Bell's "Manual of Surgical Operations," 1892; Kocher's Operative Surgery (translated by H. J. Stiles).

## DISEASES OF THE EYE.

GEORGE ANDREAS BERRY, M.B., C.M., *Lecturer.*

The Course will consist of at least twelve systematic lectures in the University, and of twelve or more clinical lectures at the Royal Infirmary.

In addition there will be meetings for individual clinical instruction, including Refraction and Ophthalmoscopy.

*Text-Books.*—Berry's "Diseases of the Eye," Swanzy'

"Handbook on Diseases of the Eye," Nettleship on "Diseases of the Eye," Fuchs' "Text-Book of Ophthalmology."

### DISEASES OF THE LARYNX, EAR, AND NOSE.

P. M'BRIDE, M.D., C.M., *Lecturer.*

A Summer Course of Instruction given in the Royal Infirmary consists of not less than eighteen lectures, partly systematic and partly clinical. These are delivered on Mondays and Thursdays, at 11 o'clock A.M.

A concise account of the more common diseases of the Ear, Nose, and Throat, and their treatment, is given in the systematic lectures.

In the clinical lectures, patients are brought before the class and their condition is examined into and discussed, and, where possible, operative treatment is carried out. Methods of examination, instruments and appliances used in diagnosis and treatment are demonstrated.

Members of the class may attend the out-patient clinics of the Department on Tuesdays and Fridays at eleven o'clock, and operations in the Wards.

Tutorial instruction in the practical methods of examining patients, and in the use of instruments and appliances, is given by Dr Logan Turner, at suitable hours in connection with the lectures.

### XIII. MIDWIFERY AND THE DISEASES OF WOMEN AND CHILDREN.

PROFESSOR SIMPSON.

The Course of Instruction comprises Lectures on—

I. Anatomy and Physiology of the Female Organs of Reproduction.

II. Physiology, Pathology, and Therapeutics of Pregnancy.

III. Parturition—Natural (Eutocia), and Morbid (Dystocia).

IV. Hygiene, Pathology, and Therapeutics of the Puerperal State.

V. Hygiene, Pathology, and Therapeutics of Infancy.

VI. Special Pathology and Therapeutics of the Female Organs of Reproduction.

One day weekly is devoted to the Gynecological Section of the Course; and the Diseases of Women may be studied clinically in the Royal Infirmary, in the Buchanan Ward (No. 35), in connection with the class of Clinical Medicine.

After the Class-roll is made up, Tutorial classes are formed for Practical Instruction in the use of Obstetric and Gynecological Instruments and Appliances.

Midwifery may be studied clinically in the Royal Maternity, of which the Professor is, *ex officio*, one of the Medical Officers, and where he attends during the first three months of the Winter Session. The Professor makes a special Clinical visit with the Students who have taken the Maternity Ticket, on Saturdays, at 10 A.M.; and he or one of the Assistant Physicians gives Clinical Instruction on Tuesday afternoons at 4 P.M.

*Summer Session.*

A Course of Instruction in Obstetrical and Gynecological Operations, with Demonstrations of the use of Instruments and Appliances, is conducted in the Summer Session, at 10 A.M.

On Tuesdays and Fridays the Professor gives Lectures and Demonstrations. On the other days the sections of the class are trained in the investigation and treatment of Female Diseases, and the members of the class have an opportunity of practising operations on lay figures.

*Text-Books.*—Playfair's "Midwifery." The Professor's "Contributions to Obstetrics and Gynecology." Hart and Barbour's "Manual of Gynecology." Ballantyne's "Diseases of Infancy."

XIV. CLINICAL SURGERY.

PROFESSOR ANNANDALE.

The subjects of this Course are the symptoms, diagnosis, pathology, and treatment of Surgical diseases and injuries as met with in the living body, and the modifications and complications which occur in connection with them. Patients are



brought before the class in the University-Clinical Surgical Theatre of the Infirmary, and their condition is carefully examined and discussed, due regard being taken to avoid injuring their feelings or aggravating their disease. The history and probable nature of the case having been stated, the proper treatment is suggested and described, and any required operations or other treatments are carried out at once, or at the first convenient opportunity. Ward Cliniques are given at least two days in the week by the Professor, and on other two days in the week the cases of patients attending the out-patient department are specially demonstrated by the Assistant Surgeon, Mr Hodsdon, so as to instruct the students in the common and minor surgical affections. Practical instruction as to the examination of patients, the observation of symptoms, the treatment of surgical emergencies, the use of instruments, the application of dressings, and other surgical details is given by the Clinical Tutor (R. Purves, M.B., F.R.C.S.E.) attached to the Chair. Special instruction in the administration of Anesthetics is also given by Thomas D. Leckie, F.R.C.S.E. The two latter instructions are *free* to all Students attending the Course.

*Text-Books.*—Any of the recent standard works on Surgery. Students are also advised to study the best works (old and new) on the special subjects of Practical Surgery.

In connection with this class it is to be noted that under the New Regulations—(1) Nine months' attendance on Lectures is required, and it is advised that at least six months of this be continuous. (2) That attendance at the *Ward Cliniques* is compulsory and forms part of the Course. (3) Students must also produce a certificate that they have acted as Dresser or Clerk in Surgical Wards for six months.

## XV. CLINICAL MEDICINE.

PROFESSORS FRASER, GREENFIELD, AND WYLLIE, AND  
(FOR DISEASES OF WOMEN), SIMPSON.

This Course, consisting of Clinical Lectures and Instruction in the University wards of the Royal Infirmary, is conducted

conjointly by the Clinical Professors—all being on duty both in the Winter and Summer Sessions, the Professor of Midwifery giving lectures and demonstrations on Gynecology on certain days.

The Course consists of:—1. Practical Instruction on three days a week at the bedside. 2. Critical Expositions and Discussions of cases in the lecture-room on two days a week.

Every facility is afforded to students to act as Clinical Clerks, and those are preferred who have had a course of tutorial instruction. At the close of each Summer Session, eight gentlemen, who have been members of the Class, are appointed Resident Physicians in the Clinical Wards for the following Winter and Summer Sessions.

#### CLINICAL TUTORIAL CLASS.

Practical instruction in the Methods of Physical Examination is given to the Class by the University Clinical Tutors.

Junior Students are strongly advised to take this course of instruction along with their first course of Clinical Medicine.

#### DISEASES OF THE SKIN.

WILLIAM ALLAN JAMIESON, M.D., C.M., *Lecturer.*

The Course of Instruction, which is given in the Royal Infirmary, consists of not less than twenty Clinical Lectures, delivered in the Medical Theatre on Wednesdays and Saturdays at 11 o'clock a.m. In these, patients are brought before the class and their condition is examined into and demonstrated, and the appropriate treatment prescribed and illustrated.

The Ordinary Out-patient Cliniques of the Department are held on Wednesdays and Saturdays, and operations are performed in the Wards on Tuesdays and Fridays. These are open to all Students holding an Infirmary Ticket, and also to Members of the class.

Tutorial Instruction in the practical methods of examining patients, of using the microscope in the diagnosis of cutaneous

affections, in the employment of instruments and the application of remedies, is given by Dr Norman Walker, at suitable hours in connection with the Lectures.

*Text-Books.*—Dr Jamieson's "Diseases of the Skin," Dr Norman Walker's "Introduction to Dermatology."

## CLINICAL INSTRUCTION ON DISEASE IN CHILDREN

*(at the Royal Hospital for Sick Children).*

THOMAS MONCK BURN MURDOCH, M.B., *Lecturer*, and the Staff of the Royal Hospital for Sick Children.

The Courses consist of one Clinical Lecture and two Ward Cliniques weekly, demonstrations in the post-mortem room, and attendance at the out-patient department, also at operations on fixed days. In the surgical out-patient department a large number of minor surgical operations are performed daily.

The Courses are made as practical as possible, and students have full opportunities given for studying cases clinically and for becoming acquainted with the methods of examining children, and the diseases more peculiar to them.

At least two Courses will be conducted annually, one in the Winter before Christmas, and one in the Summer Session. A second Winter Course after Christmas will also be given if sufficient students come forward.

## COURSE OF INSTRUCTION IN TROPICAL DISEASES SPECIALLY QUALIFYING FOR MEDICAL APPOINTMENTS IN THE CROWN COLONIES AND PROTECTORATES.

### I. PATHOLOGICAL BACTERIOLOGY.

JAMES MARTIN BEATTIE, M.A., M.D., *Lecturer*.

The Course is a practical one, consisting of Laboratory Instruction, Demonstrations, and Lectures :—

(a) *General.*—Morphology and Life History of Micro-organisms ; Preparation of Culture Media ; Methods of Isola-

tion and Cultivation, including Anaerobic Cultures ; Methods of Staining ; Separation of Bacterial Products ; Inoculation, &c.

(b) *Special*.—A Systematic Study of Organisms Pathogenic to the Human Subject—their characters, their modes of producing disease, &c. A number of the more important non-pathogenic organisms are also studied.

The Course is given in Winter, and in Summer.

*Text-Book*.—"Manual of Bacteriology," by Muir and Ritchie.

## II. DISEASES OF TROPICAL CLIMATES.

ANDREW DAVIDSON, M.D., *Lecturer*.

The Course will consist of twenty-five Lectures, and of demonstrations of the Micro-organisms of tropical diseases.

The Lectures will comprise an account of—1. The chief endemic maladies—Malaria, Dysentery, Liver Abscess, Beriberi, Yaws, &c., and of Sunstroke.

2. Leprosy and other bacterial diseases.

3. The three great tropical pestilences, Cholera, Plague, and Yellow Fever, along with the principles of Epidemiology.

4. The less known fevers of tropical and subtropical regions.

5. The more important parasitic maladies—Filariasis, Ankylostomiasis, Bilharzia disease, &c.

6. Climatology and tropical Hygiene.

*Text-Book*.—Davidson's "Hygiene and Diseases of Warm Climates."

The dates of commencement and hours of the Lectures for the Winter and Summer Sessions will be announced later.

## Graduation in Medicine and Surgery.

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### A.—REGULATIONS APPLICABLE TO ALL WHO BEGIN MEDICAL STUDIES AFTER 1ST OCTOBER 1892.

*For those who began Medical Studies before 1st October 1892, see  
Abridged Regulations B, page 412.*

I. Four Degrees in Medicine and Surgery are conferred by the University of Edinburgh, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Ch.B. is not conferred on any person who does not at the same time obtain the Degree of M.B., and the Degree of M.B. is not conferred on any person who does not at the same time obtain the Degree of Ch.B.

[These Degrees admit to the Medical Register. They qualify for Practice throughout His Majesty's dominions, and for admission to the Naval, Military, and other Public Medical Services in the United Kingdom.]

II. Subject to Regulations to be made from time to time by the University Court, the University may also confer Diplomas in Special Branches of Medical and Surgical Practice on Graduates of the University in Medicine and Surgery.

[A University certificate is granted in Diseases of Tropical Climates. See page 416.]

### PRELIMINARY EXAMINATION.<sup>1</sup>

III. Before commencing medical studies, each student must pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German: Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate<sup>2</sup> may be substituted for one in either French or German, and an examination in any other classical language<sup>2</sup> for one in Latin or Greek.

IV. The extent and standard of the Preliminary Examination is

<sup>1</sup> See also pages 458-462, and Regulations for Registration of Medical Students, page 398.

<sup>2</sup> Candidates who propose to be examined in a language other than those above-named are required to give intimation thereof before 1st February or 1st July for the Examinations in spring and autumn respectively.

determined by the Joint Board of Examiners constituted under Ordinance, No. 13 [General, No. 8 Regulations as to Examinations], in accordance with the terms of that Ordinance.

V. The Preliminary Examination is conducted in accordance with the provisions of Ordinance No. 13 [General, No. 8 Regulations as to Examinations];—and, subject to the provisions of the immediately succeeding section hereof, a Candidate shall be obliged to pass in all the required subjects at one or not more than two Examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

VI. A Degree in Arts, or in Science (not being a Degree *honoris causa tantum*), in any of the Universities of the United Kingdom, or in any Colonial<sup>1</sup> or Foreign University specially recognised for the purpose by the University Court, exempts from the Preliminary Examination; and the Joint Board of Examiners appointed under the provisions of Ordinance, General, No. 8 [Regulations as to Examinations], has power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted either in whole or in part in place of the Preliminary Examination.<sup>2</sup>

### PROFESSIONAL EDUCATION.<sup>3</sup>

VII. Candidates are admitted to the Degrees of M.B. and Ch.B. only after they have fulfilled the following conditions:—

1. The Candidate must have been engaged in Medical study for at least five years.
2. In each of the first four years the Candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in sub-section 4 hereof—each Course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such Course, along with two Courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the Candidate must be engaged in Clinical study for at least nine months at the Royal Infirmary, Edinburgh, or at one or more of such Public Hospitals or Dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.

<sup>1</sup> University recognised in terms of this section: Princeton, New Jersey, U.S.A.

<sup>2</sup> See page 463.

<sup>3</sup> No Course of Lectures will be allowed to qualify unless the Lecturer certifies that it has embraced at least 100 Lectures, or 50 Lectures, in conformity with the requirements of this section. 'Three Months' Courses on *Materia Medica*, *Pathology* and *Midwifery* do not qualify unless, in the case of *Midwifery*, they conform to the Regulation (8), p. 384. Apprenticeship, Dispensary or Hospital Practice, Practical *Midwifery*, and Vaccination, &c., are not reckoned as *Classes* in making up an *Annus Medicus*.

4. The Candidate must, during his Curriculum, have attended a Course or Courses of instruction in each of the following subjects of study, including such Examinations as may be prescribed in the various Classes, viz. :—

(1.) ANATOMY, . . . . .	{ During a Course of not less than Five Months.
(2.) PRACTICAL ANATOMY, . . . . .	{ During two Courses of not less than Five Months each. <sup>1</sup>
(3.) CHEMISTRY, . . . . .	{
(4.) MATERIA MEDICA and THERAPEUTICS, . . . . .	
(5.) PHYSIOLOGY or INSTITUTES OF MEDICINE, . . . . .	
(6.) PRACTICE OF MEDICINE, . . . . .	
(7.) SURGERY, . . . . .	
(8.) MIDWIFERY, and the DISEASES peculiar to WOMEN and INFANTS. Two Courses of Midwifery, of Three Months each, provided different departments of Obstetric Medicine be taught in each of the Courses, are reckoned equivalent to a Course of not less than Five Months, . . . . .	{ During Courses of not less than Five Months.
(9.) PATHOLOGY, . . . . .	{
(10.) PRACTICAL CHEMISTRY, . . . . .	
(11.) PHYSICS (including the DYNAMICS OF SOLIDS, LIQUIDS, and GASES, and the RUDIMENTS OF SOUND, HEAT, LIGHT, and ELECTRICITY), . . . . .	
(12.) ELEMENTARY BOTANY, . . . . .	
(13.) ELEMENTARY ZOOLOGY, . . . . .	
(14.) PRACTICAL PHYSIOLOGY, <sup>2</sup> . . . . .	{ During Courses of not less than Two and a half Months.
(15.) PRACTICAL PATHOLOGY, . . . . .	
(16.) FORENSIC MEDICINE, . . . . .	
(17.) PUBLIC HEALTH, . . . . .	Thirty Lectures.

Provided always in so far as regards the University of Edinburgh that—

- (a) It is the duty of the Senatus to determine from time to time the number of meetings of which such Courses

<sup>1</sup> Certificates of attendance on Practical Anatomy must express not only the number of months engaged in dissection, but the names of the parts dissected, and the degree of care with which the dissections have been made. Students are recommended not to appear for Examination in Anatomy, with a view to a Degree, until they have dissected the human body at least once.

<sup>2</sup> For students commencing medical study after September 1899 certificates of attendance on Practical Physiology must bear that the course of instruction included (a) Practical Experimental Physiology, (b) Practical Chemical Physiology, and (c) Practical Histology, or separate certificates must be presented, covering each of these parts of the course.



shall consist, and in what cases two half Courses shall be deemed equivalent to a full Course; and to report the determination to the University Court for its approval.

(b) It is the duty of the Professors and Lecturers to submit to the Senatus annually at the end of the Winter Session a scheme specifying what proportion of the Courses shall be devoted to Lectures, Practical Demonstrations, Examinations, and Tutorial Work respectively. The Senatus must transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(c) The University Court will not grant or continue recognition to any institutions or teachers unless it is satisfied that their Courses of Instruction are equivalent to the Courses sanctioned in the Universities of Scotland.

5. The Candidate must have attended for at least three years the Medical and Surgical Practice either of the Royal Infirmary, Edinburgh, or of a General Hospital elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons, and is recognised for the purpose by the University Court.
6. The Candidate must have attended Clinical Surgery<sup>1</sup> during a Course or Courses extending over not less than nine months. These Courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Surgeons of the Royal Infirmary, Edinburgh, or of a General Hospital defined and recognised as hereinbefore provided, and must consist of regular instruction at the bedside, along with Clinical Lectures.
7. The Candidate must have attended Clinical Medicine<sup>1</sup> during a Course or Courses extending over not less than nine months. These Courses may be conducted by Professors of the University, or by Lecturers appointed for the purpose by the University Court, or by the Ordinary Physicians of the Royal Infirmary, Edinburgh, or of a General Hospital defined and recognised as hereinbefore provided, and must consist of regular instruction at the bedside, along with Clinical Lectures.
8. The Candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine. [The course of instruction in Mental Diseases must have been given by the University Lecturer, or by a recognised Teacher, and must consist of not less than six Class-

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<sup>1</sup> Only open to Students holding the Hospital Ticket. Certificates of attendance must be countersigned by the Treasurer of the Royal Infirmary. Attendance at these Classes includes attendance at the Ward Cliniques as well as the Class Lectures.

room meetings for lectures and demonstrations and ten meetings in the Wards of a recognised Asylum for the Insane.<sup>1]</sup>

9. The Candidate must have attended a Course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an Hospital or Dispensary, or the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the Books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.
10. The Candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an Hospital, or the practice of a Dispensary, or of a Physician or Surgeon, or of a Member of the London or Dublin Society of Apothecaries. He must have acted as Clerk<sup>2</sup> in the Medical and Dresser<sup>2</sup> in the Surgical Wards of a Public Hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying, at an Hospital or Dispensary, *post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined. [The approved courses are:—*A.* (1) Post-Mortem Examinations<sup>3</sup> in a recognised Hospital for a period of at least three months, during which practical instruction is given in the methods of making Post-Mortem Examinations, and in framing Reports.<sup>1</sup> (2) A course of Clinical instruction in infective Fevers, given at not less than twelve meetings in the Wards of a recognised Hospital where Clinical instruction is given on cases of Infectious Diseases.<sup>1</sup> (3) A course of instruction in Diseases of the Eye, given by the University Lecturer, or by a recognised Teacher, at not less than twelve Class-room meetings and twelve meetings for Clinical instruction in the Wards of a recognised Hospital, or in the Wards of a Hospital, and in a Dispensary, both recognised for the purpose. The Course to include efficient practical instruction in the methods of Examining the Eye.<sup>1</sup> (4) A Course of Operative Surgery, conducted by the Professor of Surgery in the University, or by a recognised Teacher. *B.* Every Candidate shall also be required to attend any one of the three following courses:—(1) A course of Clinical instruction in the Diseases of Children, given by the University Lecturers, and by recognised Teachers in the Edinburgh Royal Hospital for Sick Children, or by a recognised

<sup>1</sup> Must be attended before the Candidate enters for the Final Examination.

<sup>2</sup> For six months. Must be members of the Class of Clinical Surgery, or of Clinical Medicine as the case may be. See also footnote, p. 385.

<sup>3</sup> See footnote, page 385.

Teacher or Teachers in a Hospital recognised for the purpose, which shall extend over a period of at least six weeks, and in addition to the opportunities for Surgical and for other Medical instruction afforded by the Hospital, shall include Clinical instruction in the Medical diseases of children, consisting of not less than four Class-room lectures, ten meetings for Clinical instruction in the Medical Wards, and four meetings in the Out-patient Department of the Hospital,<sup>12</sup> together with attendance at Post-Mortem Examinations.<sup>12</sup> (2) A course of instruction in diseases of the Larynx, Ear, and Nose, given by a University Lecturer,<sup>12</sup> or by a recognised Teacher, at not less than six Class-room meetings, and twelve meetings for Clinical instruction in the Wards of a recognised Hospital, or in the Wards of a Hospital and in a Dispensary, both recognised for the purpose.<sup>12</sup> (3) A course of clinical instruction in diseases of the Skin, given by a University Lecturer, or by a recognised teacher, at not less than Twenty meetings in the wards of a recognised Hospital, or in the wards of a Hospital and in a Dispensary both recognised for the purpose.<sup>12</sup>

11. The Candidate must have attended, under the superintendence of a registered Medical Practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a Lying-in Hospital, or of the Maternity Department of a General Hospital or other Public Charitable Institution, and have conducted personally six, or such additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The Candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.<sup>3</sup>
13. No Candidate for a degree will be deemed to have attended a class as part of the Curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

<sup>1</sup> See footnote, page 385.

<sup>2</sup> See footnote 1, page 386.

<sup>3</sup> The Candidate must, when he enters for the Final Examination, produce a certificate of instruction and examination in vaccination of the standard required by the Local Government Board from a Vaccine Department in an Hospital, Dispensary, or other public Institution recognised for the purpose by the Local Government Board. The recognised Vaccine Departments in Edinburgh are the Western Dispensary, 90 Fountainbridge—*Vaccinator*, Dr J. B. Buist; and the Edinburgh Provident Dispensary, Marshall Street—*Vaccinator*, Dr Cadell.

VIII. With respect to the Places and Institutions at which the studies of the Candidate may be prosecuted, the following Regulations have effect :—

1. Two of the five years of medical study must be spent in the University of Edinburgh, each year of study including always the attendances specified in section VII., sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in section VII., sub-section 2.<sup>1</sup>
3. Of the subjects of study specified in section VII., sub-section 4, not less than eight must be taken in the University of Edinburgh, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial University entitled to confer the Degree of Doctor of Medicine, recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University, entitled to confer the Degree of Doctor of Medicine, recognised for the purpose by the University Court : Provided always that where in any of said subjects of study two or more Courses are required, the taking of one of those Courses will constitute a taking of the subject for the purpose of this sub-section.
4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such Medical Schools or under such Teachers as may be recognised for the purpose by the University Court.
5. All Candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Edinburgh, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The Fee for attendance, for purposes of graduation, on the Courses of instruction of recognised Extra-Academical Teachers in Edinburgh, must be not less than the amount exigible for the corresponding Courses in the University.

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<sup>1</sup> Universities recognised under this sub-section.—All Indian, Colonial, or foreign Universities whose Courses of Instruction were accepted for purposes of graduation in Medicine under the old Ordinances.

*[The fee must be paid at the commencement of the Course, and the Certificate must state the amount of the fee paid.]*

7. The University Court will not recognise as qualifying for examination in any of the subjects specified in section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach the two subjects: Provided always that a Professor or other Teacher in any endowed public College or Institution, who, by the terms of his appointment, is required to teach more than one subject of Medical Study therein, may be recognised under sub-section 2 of this section as a Teacher of any one of the subjects which he teaches.
8. A Teacher, attendance on whose course of instruction, before the date of the approval of these Regulations by Her Majesty in Council, had been recognised for the purposes of graduation in the University, is not required to obtain a new recognition from the University Court; and attendance on the course of instruction of every such Teacher may continue to be recognised as heretofore.
9. It is in the power of the University Court, if it sees cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Edinburgh it is the duty of the Professors of the subjects specified in section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the Courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one Course of five or six months, or of two and a half or three months as the case may be.

X. If any Candidate, before presenting himself for his Preliminary Examination, has attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a Course or Courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying Course in the same subject in the University of Edinburgh, such attendance will (notwithstanding anything hereinbefore stipulated) be held as entitling him to be examined in these subjects; and if the Candidate has attended such Course or Courses in each of the said subjects, he will be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent Course or Courses must be presented to the Senatus at the time when the Candidate presents himself for his Preliminary Examination; and the Senatus will, if satisfied, grant a certificate to that effect.



By a Supplementary Ordinance of the Commissioners, the provisions of this section shall not have effect except where the University Court shall allow the application after a report by the Senatus, setting forth special grounds therefor.

#### PROFESSIONAL EXAMINATION FOR M.B. AND Ch.B.

XI. Each Candidate is examined, both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz. :—*First*, in Botany, Zoology, Physics, and Chemistry ; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics ; *Third*, in Pathology ; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, Midwifery, Forensic Medicine, and Public Health.

In subjects which admit of practical instruction, the examination will be such as to test the practical acquirements of the Candidate.

If a Candidate for the Degrees of M.B. and Ch.B. have completed, in a University of the United Kingdom, a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a Degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.

If a Candidate have obtained a Degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such Candidate from the examinations in such subject or subjects ; provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.<sup>1</sup>

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz., Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full Course in each of the subjects professed.

XIII. Candidates who have passed their examinations in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that Candidates who so desire may postpone their examination in Materia Medica and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to

<sup>1</sup> Universities recognised under this section—  
University of New Zealand.  
University of Wisconsin.

examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any Candidate at these examinations be found unqualified in one or more subjects, he will not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.<sup>1</sup>

XVII. If any Candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he will not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every Candidate must deliver,<sup>2</sup> on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the Candidate has satisfied the Examiners, the Dean of the Faculty of Medicine lays the proceedings before the Senatus, by whose authority the Candidate will be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of M.B. and Ch.B., on payment of the required fees.

XX. Candidates for graduation must produce evidence of their having conformed to the Regulations which were in force at the time they commenced their Medical Studies.

### PROFESSIONAL EXAMINATION FOR M.D.<sup>3</sup>

XXI. 1. Subject to the conditions hereinafter specified, the Degree of M.D. is conferred on any Candidate who has obtained the Degrees of M.B. and Ch.B., and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to having received the Degrees of M.B. and Ch.B., for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing

<sup>1</sup> Satisfactory Certificates must be produced when Candidates re-enter for Examination. The fees paid to Extra-Academical teachers in Edinburgh for re-attendances must be of the same amount as those payable for the corresponding classes in the University, and the Certificates of attendance must show the amounts of the fees paid.

<sup>2</sup> On or before the date for lodging Certificates, &c., for the fourth division of the Examinations. See page 407. This declaration is appended to the Schedule for the Final Examination, and must be attested and signed before the Schedule is lodged.

<sup>3</sup> Candidates, settled for a period of years in foreign parts, who have complied with all the regulations for the Degree of M.D. or for the Degree of Ch.M., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them in absence.



directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each Candidate for the Degree of M.D. is required to pass an examination in Clinical Medicine and in such of its special departments as may from time to time be determined; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

This Examination in Clinical Medicine for each Candidate consists of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard should be given to the opportunities they afford for testing the Candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, &c. : Provided always that one of the three cases on which a Candidate shall be examined may be the case of a patient suffering from a Gynecological or Mental Disease, or Disease of Childhood, if the Candidate on entering his name for the Examination declare a wish to this effect. So far as possible, the Examination in these Departments will be on a standard equal to that of the Examination on the Medical cases.

3. Each Candidate for the Degree of M.D. must submit for the approval of the Faculty of Medicine a Thesis, on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of M.B. and Ch.B., which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the Candidate, that the work has been done and the Thesis composed by himself, must be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.<sup>1</sup>

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<sup>1</sup> Candidates are required to write their Theses on faint lined paper, 11 in. by 8½ in. with margins 1½ in. at each side. The Thesis is to be written on one side of each leaf only, and it must be lodged on or before 30th April of the year in which the Candidate proposes to graduate. There is no regulation as to length of Thesis. See also footnote 2, page 407. For standard of Thesis see page 415, sentence beginning: "No Thesis will be approved," &c.

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such Degrees ; but the Degree of M.D. will not be conferred on him unless he produces a certificate that, subsequently to having received the Degrees of M.B. and Ch.B., he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

Bachelors of Medicine and Masters of Surgery of the University of Edinburgh, who have graduated under the regulations in force before 5th August 1892, may proceed to the Degree of Doctor of Medicine under the provisions of this section in the same manner as if they had graduated under the new Regulations.

#### PROFESSIONAL EXAMINATION FOR CH.M.<sup>1</sup>

- XXII. 1. Subject to the conditions hereinafter specified the Degree of Ch.M. will be conferred on any Candidate who has obtained the Degrees of M.B. and Ch.B. of the University, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of M.B. and Ch.B., for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.
2. Each Candidate for the Degree of Ch.M. is required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as may from time to time be determined ; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of M.B. and Ch.B.

<sup>1</sup> See footnote 3, page 391.

The Examination in Clinical Surgery for the Degree of Master of Surgery should for each Candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, on at least three Surgical cases: Provided that one of the three Surgical cases on which a Candidate shall be examined may be the case of a patient suffering from an Eye, Throat, Ear, or Gynecological Disease, if the Candidate on entering his name for the Examination declare a wish to this effect. So far as possible, the Examination in these Departments shall be on a standard equal to that of the Examination on the Surgical cases. The Candidates shall also be examined in Surgical Anatomy and Operations upon the dead body.

3. Each Candidate for the Degree of Ch.M. must submit, for the approval of the Faculty of Medicine, a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of M.B. and Ch.B., which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the Candidate that the work has been done and the Thesis composed by himself, must be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.<sup>1</sup>
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such Degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in sub-section 2 of this section at any period of examination after he has received such Degrees; but the Degree of Ch.M. shall not be conferred on him unless he produces a certificate that, subsequently to having received the Degrees of M.B. and Ch.B., he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

#### REGULATIONS FOR GRADUATION OF WOMEN.

1. It shall be in the power of the University Court to admit Women to graduation.
2. The conditions for graduation shall be the same for women as for men, subject to the following modifications, which shall have effect

<sup>1</sup> See footnote 3, page 391, and footnote, page 392.

until provision is made for the instruction of women in all the subjects qualifying for graduation, in which provision is made for the instruction of men.

3. Section VIII. of Regulations for Degrees in Medicine shall not be applicable to the graduation of women in Medicine.

So long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such teachers as may be recognised for the purpose by the University Court : Provided always that every Candidate for graduation shall produce evidence of having satisfied the conditions laid down in the Regulations for Degrees in Medicine with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University.

4. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

5. In the case of women who began their studies before these Regulations came into operation, it shall be competent to the University Court to admit to graduation in Medicine women who may complete their medical studies in accordance either with the Regulations for graduation hitherto in force, or with the present Regulations ; declaring that as regards their studies prior to the date at which these Regulations came into operation (1st October 1892), such women may have obtained their instruction in any classes which the University Court may accept for the purpose, and providing that before beginning their medical studies they shall have passed a Preliminary Examination which the University Court shall consider to have been adequate.

6. Women who attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. Women, who are Candidates for graduation but not matriculated students, and who may attend classes in Edinburgh under the provisions above set forth, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by students of the University [and having, in respect of such payment, a right to the use of the Library of the University].

#### ADDITIONAL REGULATIONS OF THE UNIVERSITY COURT.

When granting recognition to Medical Schools or Teachers for the medical instruction of women, the University Court requires that the classes shall not be mixed classes, except on special cause shown.

## 396 *Dates of Entering for Preliminary Examination.*

The University Court have recognised the Medical College for Women, 30 Chambers Street, Edinburgh, as a Medical School whose courses of instruction qualify for graduation in Medicine, subject to the following conditions:—Provided 1. That every Candidate for graduation shall produce evidence of having satisfied the conditions with respect to the Preliminary Examination and Registration as Medical Students, and shall be examined in all the subjects necessary for graduation by the Examiners of the University in which she takes her degree. 2. . . . 3. . . . 4. . . . 5. That the aforesaid School make application annually to the University Court for a continuation of the recognition thus granted, and at the same time report to the Court on the administrative arrangements and discipline of the School. 6. That schedules of Class Returns, to be furnished by the Court, and giving the designation of the class or course, number of students, number of meetings, &c., be filled up by each of the teachers of the qualifying classes or courses of instruction in the aforesaid Schools, as in the case of the recognised Lecturers on Medicine, and forwarded to the Secretary of the Court not later than 1st July in each year. 7. That all advertisements referring to the recognition of the aforesaid School, or to the qualifying classes or courses of instruction to be given at any time in connection with this School, shall, before publication, be submitted to the Secretary of Senatus of the University, and receive his approval.

### DATES OF ENTERING FOR PRELIMINARY EXAMINATION AND FOR PAYMENT OF FEES. .

Each Candidate is required to pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

Candidates for Examination may obtain Schedules at the Matriculation Office, University (Old) Buildings, on and after 9th September 1902, and on and after 16th February 1903. The Schedules must be completed and returned along with the fees not later than 18th September 1902 and 2nd March 1903, for the autumn and spring Examinations respectively.

The Examinations are held in the Examination Hall, University (Old) Buildings, South Bridge, Edinburgh.

Candidates may pay the fees personally or transmit them to T. Gilbert, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts* crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh, but not by cheques on private accounts. When names are not entered and Fees paid on or before the stated dates, an additional or late entry fee of 10s. must be paid before the Candidate can be admitted to Examination. A Candidate is not held to have entered until his Schedule is lodged, the Fee paid, and a Pass to the Examination obtained.

TIME-TABLE FOR PRELIMINARY EXAMINATIONS FOR 1902-1903.

		Medical Preliminary Examinations.	Arts and Science Preliminary Examinations.
1902.			
Sept. 26	Fri.	English, 9-12 Latin, 3-6 <sup>2</sup>	English, 1st paper, 9-11 Higher Latin, 1st paper, 12-2 Lower Latin, 3-6
„ 27	Sat.	Higher Mathematics, 1st paper, 12-2 <sup>1</sup> Greek, 3-6 <sup>2</sup> Do., 3-5 <sup>1</sup>	English, 2nd paper, 9-11 Intermediate and Higher Mathematics, 12-2 Lower Greek, 3-6 Anglo - Saxon for Patterson Bursary, 9-12, 3-6
„ 29	Mon.	Higher Mathematics, 2nd paper, 12-2 <sup>1</sup> Mathematics, 3-6 <sup>2</sup>	Higher Latin, 2nd paper, 9-11 Intermediate and Higher Mathematics, 12-2 Lower Mathematics, 3-6
„ 30	Tu.	French, 12-3 Do., 12-2 <sup>1</sup> Mechanics, 3-6 <sup>13</sup>	Higher Greek, 1st paper, 9-11 French, 1st paper, 12-1.30 Dynamics, 3-6
Oct. 1	Wed.	German, 3-6 Do., 3-5 <sup>1</sup>	Higher Greek, 2nd paper, 9-11 French, 2nd paper, 12-2 German, 1st paper, 3-4.30
„ 2	Th.	Moral Philosophy, 9-11 <sup>1</sup>	German, 2nd paper, 9-11 Italian, 12-1.30
„ 3	Fri.	Natural Philosophy, 9-11 <sup>1</sup> Logic, 2-4 <sup>1</sup>	
1903.			
Mar. 27	Fri.	English, 9-12 Latin, 3-6 <sup>2</sup>	English, 1st paper, 9-11 Higher Latin, 1st paper, 12-2 Lower Latin, 3-6
„ 28	Sat.	Higher Mathematics, 1st paper, 12-2 <sup>1</sup> Greek, 3-6 <sup>2</sup> Do., 3-5 <sup>1</sup>	English, 2nd paper, 9-11 Intermediate and Higher Mathematics, 1st paper, 12-2 Lower Greek, 3-6
„ 30	Mon.	Higher Mathematics, 2nd paper, 12-2 <sup>1</sup> Mathematics, 3-6 <sup>2</sup>	Higher Latin, 2nd paper, 9-11 Intermediate and Higher Mathematics, 2nd paper, 12-2 Lower Mathematics, 3-6
„ 31	Tu.	French, 12-3 Do., 12-2 <sup>1</sup> Mechanics, 3-6 <sup>13</sup>	Higher Greek, 1st paper, 9-11 French, 1st paper, 12-1.30 Dynamics, 3-6
April 1	Wed.	German, 3-6 Do., 3-5 <sup>1</sup>	Higher Greek, 2nd paper, 9-11 French, 2nd paper, 12-2 German, 1st paper, 3-4.30
„ 2	Th.	Moral Philosophy, 9-11 <sup>1</sup>	German, 2nd paper, 9-11 Italian, 12-1.30, 3-5
„ 3	Fri.	Natural Philosophy, 9-11 <sup>1</sup> Logic, 2-4 <sup>1</sup>	

<sup>1</sup> For Students completing the Examination under the Old Regulations.

<sup>2</sup> Same as the Lower Standard Paper for Degrees in Arts and Science.

<sup>3</sup> Same as Dynamics for Degrees in Arts and Science.



# MINIMUM CURRICULUM FOR DEGREES OF M.B. AND Ch.B., WITH SUGGESTED ORDER OF STUDY AND EXAMINATION.

Before beginning Medical Study, students must pass the Preliminary Examination in General Education, either at the University, or elsewhere, according to the requirements of the University. Immediately after entering on Medical Study, students must register in the books of one or other of the Registrars of the General Medical Council. The Registrar for Scotland is Mr James Robertson, 54 George Square, Edinburgh, from whom forms of Registration and all information on the subject may be obtained. *Candidates for Registration must produce evidence that they have attained 16 years of age.*

Medical Study may be begun either in October (Winter Session) or May (Summer Session), and must be engaged in for at least five years.

## A.—For Students beginning in Winter.

### FIRST WINTER SESSION.

Chemistry.  
Practical Chemistry.  
Physics.<sup>1</sup>  
Anatomy.  
*Examination in Chemistry, including Practical Chemistry, and Physics.*

### FIRST SUMMER SESSION.

Botany.  
Zoology.  
*Examination in Elementary Botany and Elementary Zoology.*

### SECOND WINTER SESSION.

Surgery.  
Practical Anatomy.  
Physiology.  
Practical Physiology.  
Hospital and Clinical Surgery *after Christmas.*

### SECOND SUMMER SESSION.

Practical Materia Medica.  
Hospital and Clinical Surgery.  
Practical Physiology.  
Practical Anatomy.

### THIRD WINTER SESSION.

Anatomical Demonstrations.  
Materia Medica.

Hospital and Clinical Surgery *up to Christmas.*

Practical Anatomy.  
*Examination in Anatomy, Physiology, and Materia Medica and Therapeutics. (The last may be postponed to the end of the following summer.)*

### THIRD SUMMER SESSION.

Practical Pathology.  
Hospital and Clinical Medicine.  
*Examination in Materia Medica and Therapeutics (if not previously taken).*

### FOURTH WINTER SESSION.

Midwifery.  
Pathology.  
Hospital and Clinical Medicine.  
Post-Mortems.  
Medicine.  
Dispensary.  
*Examination in Pathology, Forensic Medicine, and Public Health.<sup>2</sup> (The latter may be postponed to the end of the following summer).*

<sup>1</sup> Three months' course.

<sup>2</sup> After 1903 the Examinations in Forensic Medicine and in Public Health will be in the Final only.



FOURTH SUMMER SESSION.

Forensic Medicine.  
Public Health.  
Ophthalmology.  
Diseases of Children; or  
Larynx, Ear and Nose; or Skin.  
Hospital and Clinical Medicine  
Dispensary.  
Mental Diseases.

FIFTH WINTER SESSION.

Fevers.  
Hospital and Clinical Medicine.

Vaccination.

Practical Midwifery.

SPRING VACATION AND FIFTH SUMMER SESSION.

Operative Surgery.  
*Examination in Surgery and Clinical Surgery, Medicine and Clinical Medicine, Midwifery, Forensic Medicine, and Public Health, if not taken in the Third Professional Examination.*<sup>2</sup>

B.—For Students beginning in Summer.

FIRST SUMMER SESSION.

Botany.  
Zoology.  
*Examination in Elementary Botany and Zoology.*

FIRST WINTER SESSION.

Chemistry.  
Practical Chemistry.  
Physics.<sup>1</sup>  
Anatomy.  
*Examination in Chemistry, including Practical Chemistry and Physics.*

SECOND SUMMER SESSION.

Practical Anatomy.  
Practical Physiology (Histology).

SECOND WINTER SESSION.

Surgery.  
Practical Anatomy.  
Practical Physiology.  
Hospital and Clinical Surgery *after Christmas.*  
Physiology.

THIRD SUMMER SESSION.

Practical Materia Medica.  
Practical Anatomy.  
Hospital and Clinical Surgery.

THIRD WINTER SESSION.

Practical Anatomy.  
Anatomical Demonstrations.  
Hospital and Clinical Surgery *up to Christmas.*  
Materia Medica.  
*Examination in Anatomy, Physiology, and Materia Medica and Therapeutics. (The last may be postponed to the end of the following Summer.)*

FOURTH SUMMER SESSION.

Practical Pathology.  
Hospital and Clinical Medicine.  
Dispensary.

FOURTH WINTER SESSION.

Midwifery.  
Pathology.  
Hospital and Clinical Medicine.  
Post-mortems.  
Medicine.  
Dispensary.  
*Examination in Pathology, Forensic Medicine, and Public Health.*<sup>2</sup> *(The latter may be postponed to the end of the following Summer.)*

<sup>1</sup> Three months' course.

<sup>2</sup> After 1903 the Examinations in Forensic Medicine and in Public Health will be in the Final only.

FIFTH SUMMER SESSION.

Forensic Medicine.

Public Health.

Operative Surgery.

Ophthalmology.

Diseases of Children ; or,  
Larynx, Ear and Nose ; or  
Skin.

Hospital and Clinical Medicine.

Mental Diseases.

FIFTH WINTER SESSION.

Fevers.

Hospital and Clinical Medicine.

Vaccination.

Practical Midwifery.

*Examination in Surgery and  
Clinical Surgery, Medicine  
and Clinical Medicine, Mid-  
wifery, Forensic Medicine,  
and Public Health, if not  
taken in the Third Pro-  
fessional Examination.<sup>1</sup>*

## REGULATIONS AS TO CLASS EXAMINATIONS.

With a view to promote the Educational interests of the students during the time they are occupied with the respective subjects in the Classes, the Senatus recommend :—

1. That there should be at least two Special Class-Examinations in the Classes in the Faculty of Medicine during each Session, conducted by means of questions and written answers, without aid from books or notes.

2. That in the event of a student gaining 75 per cent. or more of the available marks in any department, he shall obtain a Certificate in the First Class of Honours.

3. That in the event of a student gaining 50 per cent. or more, but less than 75 per cent., of the available marks in any department, he shall receive a Certificate in the Second Class of Honours.

University Bronze Medals are also given for Competitive Class Examinations.

## CERTIFICATES OF ATTENDANCE ON CLASSES IN THE FACULTY OF MEDICINE.

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner :—

Each Professor shall ascertain the presence of his pupils at least twenty-six times in a Course of six months' duration, and thirteen times in a Course of three months' duration.

Those who have been absent twelve or more times in a six months' Course, or six or more times in a three months' Course, or have not duly performed the work of the Class, including any Examinations that may be held, shall not be entitled to any Certificate.

The following is the form of Certificate which must be adopted in all cases :—

<sup>1</sup> See footnote 2, p. 399.

"I certify that Mr \_\_\_\_\_ attended my Course of Instruction on \_\_\_\_\_ during the Session \_\_\_\_\_; that he was present on \_\_\_\_\_ of the \_\_\_\_\_ occasions on which attendance was ascertained; and that he duly performed the work of the class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for six weeks or upwards in a Course of six months, or for three weeks in a Course of three months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty for the decision of the Faculty.

Whenever the student's cause for absence shall be admitted by the Professor or by the Faculty, the Certificate shall bear that he "attended," and shall state the amount of the irregularity and the nature of the excuse.

## FIRST PROFESSIONAL EXAMINATION.

The Faculty of Medicine have resolved that the written and oral examinations on Chemistry, Elementary Botany, Elementary Zoology, and Physics shall be restricted in the following manner:—

**I. Chemistry.**—Chemical changes as distinguished from physical changes. Elements; compounds; mixtures. Laws of chemical combination by weight and by volume. The atomic theory. Atoms; molecules. Avogadro's Hypothesis. Molecular weights of gaseous and volatile substances. Atomic weights. Law of Dulong and Petit. Chemical Notation—Symbols; formulæ; equations. Simple chemical calculations.

The non-metallic elements and their chief compounds; especially the compounds of oxygen, of hydrogen, and of chlorine with the other non-metals. The more important inorganic acids. The atmosphere. Combustion. Oxidation and reduction.

The following metallic elements and their chief compounds; especially those with oxygen, with chlorine, and with sulphur: Gold, platinum, silver, mercury, lead, antimony, tin, copper, bismuth, zinc, cadmium, iron, aluminium, chromium, manganese, barium, strontium, calcium, magnesium, potassium, sodium.

The following salts: the ammonium salts; the more important sulphates, sulphites, thiosulphates, nitrites, carbonates, bromides, iodides, iodates, phosphates, borates, silicates.

The relations of bases, acids, and salts. Electrolysis. Quantivalence. The periodic law.

The metallurgy of silver, mercury, copper, lead, tin, zinc, iron (including cast-iron and steel). Alloys, such as brass, bronze, solder, type-metal. Amalgams.

The manufacture of aluminium, magnesium, potassium, sodium, glass, porcelain, mortar, gunpowder, sulphuric acid, sodium carbonate and bicarbonate, caustic soda, bleaching powder and chlorates; white lead.

Classification of Carbon Compounds. Marsh Gas and its Homologues. Chloroform. Methyl and Ethyl Alcohols and Ethers. Substituted ammonias and ammonium salts. Formic and Acetic Acids, Aldehyde, Acetone, Chloral, Olefiant Gas, Acetylene, Oxalic Acid, Lactic Acid. Tartaric Acid, Citric Acid. Fats and Oils, Saponification, Glycerine. Cellulose, Sugars, Starch. Distillation of Wood and of Coal. Benzene, Benzoic Acid, Phenol, Salicylic Acid, Oil of Bitter Almonds. Hydrocyanic Acid, Cyanides, Cyanates, Thiocyanates, Urea, Uric Acid.

*Practical Examination.*—(a) Simple inorganic preparations on a small scale, especially such as involve the formation and decomposition of the commoner salts.

(b) The qualitative examination of single substances. The substances given for examination may be:—Salts in solution; solid salts soluble in water; carbonates, sulphides, and oxides, insoluble in water but soluble in acids; metals. The salts given are confined to those derived from the metals and salt radicals named in the following lists:—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Cadmium, Bismuth, Antimony (*Tartar Emetic* may be given), Arsenious, Zinc, Manganous, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Strontium, Magnesium, Ammonium, Sodium, Potassium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Orthophosphate, Arsenate, Arsenite, Borate, Oxalate, Nitrate, Chlorate, Acetate.

(c) Acidimetry and Alkalimetry.

(For further information see the *Practical Chemistry Class Book* "Salts and their Reactions," published by James Thin.

2. *Elementary Botany.*—The characteristic features of the following groups and classes of the vegetable kingdom:—

Thallophyta [Schizophyta, Algæ, Fungi]; Muscinæ [Hepaticæ, Musci]; Pteridophyta [Filicineæ, Equisetineæ, Lycopodineæ]; Phanerogamæ [Gymnospermiæ, Angiospermiæ (Monocotyledones, Dicotyledones)].

The fundamental facts and principles of Organography and Physiology. The characters of plants belonging to the following natural orders of Phanerogamæ:—Coniferæ, Gramineæ, Orchideæ, Liliaceæ, Urticaceæ, Labiatæ, Compositæ, Umbelliferæ, Rosaceæ, Leguminosæ, Cruciferæ, Ranunculaceæ.

3. *Elementary Zoology*.—An elementary knowledge of the Protozoa, Cœlenterata, Echinodermata, Annelida, Arthropoda, and Mollusca. A general knowledge of the structure and habits of the Pisces, Amphibia, Reptilia and Aves, and of the structure, habits, and distribution of the Mammalia. The fundamental facts as to (1) the structure, &c., of the cell, (2) Sexual and Asexual Reproduction, (3) Heredity and Variation, (4) Maturation, Fertilisation, and Segmentation of the Ovum, (5) the Development of a Mammal, and (6) Parasitism and Degeneration.

4. *Physics*.—(a) Properties of Matter—including Inertia, Gravitation, Molecular Forces, &c.

(b) Abstract Dynamics—including Kinematics and Newton's Laws of Motion, with their consequences as regards Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, with the Physical Measurement of Time.

(c) Sound and Wave-propagation in general, Intensity, Pitch and Quality of Musical Sounds, Harmonics, Concords, &c.

(d) Heat, its Nature, Effects, Measurement, Transference and Transformations—Measurement of Temperature and of absolute Temperature, Thermodynamics.

(e) Light (1), Geometrical Optics, Speed of Light, Laws of Reflection and Refraction, Construction and Effects of Mirrors, Prisms, Lenses, and Microscopes, Images, Conditions of Distinct Vision. (2) Physical Optics—Interference, Dispersion, Diffraction, Double Refraction, Polarisation, Spectrum Analysis.

(f) Electricity, including Frictional and Voltaic Electricity, Thermo- and Magneto-Electricity, Electro-Dynamics and Magnetism, with their practical applications. Measurements of Potential, Electromotive Force, Current, &c., Batteries, Dynamo-, Electrometers, Galvanometers, Voltmeters, &c.

## HONOURS AT PROFESSIONAL EXAMINATIONS.

Candidates who have displayed special merit at any of the Professional Examinations will be announced as having passed that Examination "with distinction."

Candidates who have displayed special merit at each of the Professional Examinations will be announced, at the time of the Graduation, as having obtained FIRST or SECOND CLASS HONOURS, according to the merit that has been displayed.

## SPONSIO ACADEMICA FOR GRADUATES IN MEDICINE.

Ego Doctoratus in Arte Medica titulo jam donandus, sancte coram Deo cordium scrutatore, spondeo, me in omni grati animi officio erga Universitatem Academicam Edinburgensem ad extremum vite halitum perseveraturum.

Tum porro Artem Medicam caute, caste, probeque exercitaturum, et quoad potero, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum. Quæ, denique, inter medendum visa vel audita sileri conveniat, non sine gravi causa vulgaturum.

Ita præsens spondenti adsit Numen.

## FEES FOR EXAMINATIONS.

### FEES FOR M.B. AND CH.B.

Fee for the First Division of the Examination, viz., Botany, Zoology, Physics, and Chemistry . . .	£6 6 0
<i>or</i>	
For any two of the subjects . . .	£3 3 0
For the other two subjects . . .	3 3 0
For the Second Division, viz., Anatomy, Physiology, and Materia Medica and Therapeutics . . .	6 6 0
<i>or</i>	
For Anatomy and Physiology . . .	£4 4 0
For Materia Medica and Therapeutics . . .	2 2 0
For the Third Division, viz., Pathology . . .	4 4 0
For the Final Division, viz., Surgery and Clinical Surgery, Medicine and Clinical Medicine, Mid- wifery, Forensic Medicine, and Public Health . . .	6 6 0
	<hr/> £23 2 0 <hr/>

Any Candidate who fails to pass in one or more of the subjects, must pay £1, 1s. for re-examination in each subject. (Surgery and Clinical Surgery count as two subjects, and Medicine and Clinical Medicine as two subjects.)

Candidates who, under the proviso in Section XI. of the Regulations, are exempted from the first division of the Examination, are required, after passing the final division of the Examination, to pay a fee of £6, 6s. before they can be admitted to the Degrees of M.B. and Ch.B.

Fee for M.D. . . . .	£10 10 0
Fee for Ch.M. . . . .	10 10 0

Any Candidate who fails to pass the Examinations for the Degree of M.D. or for the Degree of Ch.M., is required to pay a Fee of £5, 5s. for each re-appearance.

Every Candidate for Examination or Graduation must be a Matriculated Student of the year in which he appears for Examination or Graduation. He is also required before Graduation to pay the fee of £1 for Registration as a Member of the General Council, if not already a Member.



## TIME-TABLES OF EXAMINATIONS.

*Candidates are required to enter for each periodical Professional Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.*

The dates of the Examinations for 1902-1903 have been fixed as follows, and Candidates are required to assemble in the Examination Hall at the University a quarter of an hour before the time fixed for examination.

### PRELIMINARY EXAMINATION.

See Time-Table and Dates of Entering, &c., pages 396 and 397.

### PROFESSIONAL EXAMINATIONS.

Candidates are required to enter their names and to pay the fees for the Examinations at the Matriculation Office, University (Old) Buildings, at the stated periods; and afterwards, at the stated periods, to exhibit their Certificates and Matriculation Cards at that Office. Certificates only will be received as evidence of attendance.

If names are not entered, Fees paid, and Certificates shown, or Theses lodged, on or before the stated dates (or a Pass obtained in the case of the fee having been previously paid), a late-entry fee of ten shillings must be paid before the Candidate can be admitted to any one of the Four Professional Examinations for M.B., or to the Professional Examinations for M.D. or Ch.M. Candidates may enter on payment of this fee till 4 P.M. on the third day previous to the commencement of the respective Examinations. Thereafter a late-entry fee of twenty shillings will be charged till twelve noon of the day preceding the commencement of any one of the Professional Examinations. No later entry will be received.

Theses for the degrees of M.D. and Ch.M. can only be lodged later than the appointed date (30th April) by getting special permission from the Dean to do so, and Theses so lodged are not eligible for competition for medals or other awards.

If, after payment of the fee, a candidate withdraws his name, or fails to present himself at the examination, he will not receive back the fee, but will be allowed to enter on one subsequent occasion for examination in the same subject, without the payment of any additional fee.

### FIRST PROFESSIONAL EXAMINATION.

This Examination takes place in March and July. Candidates may be admitted to Examination in all or in any two subjects, after they have attended a full course in each of the subjects professed.

1903.

- |      |     |      |   |
|------|-----|------|---|
| Mar. | 6.  | Fri. | Names to be given in, and Fees paid, <i>on or before</i> this date. |
| „    | 20. | Fri. | Certificates to be examined from 10 to 3.                           |

## 406 *Graduation in Medicine—Dates of Examinations.*

### *Written Examinations.*<sup>1</sup>

1903.		
Mar.	23.	Mon. Chemistry at 10 o'clock ; Physics at 1 o'clock.
„	24.	Tu. Zoology at 10 o'clock ; Botany at 1 o'clock.
July	3.	Fri. Names to be given in, and Fees paid <i>on or before</i> this date.
„	15.	Wed. Certificates to be examined from 10 to 3.

### *Written Examinations.*<sup>1</sup>

„	17.	Fri. Chemistry at 10 o'clock ; Physics at 1 o'clock.
„	18.	Sat. Zoology at 10 o'clock ; Botany at 1 o'clock.

### SECOND PROFESSIONAL EXAMINATION.<sup>1</sup>

This Examination takes place in March and July. Candidates who have passed the First Examination may be admitted to this Examination at the end of their Third Winter Session, on production of certificates of attendance on the Classes in the three subjects of this Examination.

Mar.	13.	Fri. Names to be given in, and Fees paid <i>on or before</i> this date.
„	21.	Sat. Certificates to be examined from 10 to 1.

### *Written Examinations.*<sup>1</sup>

„	25.	Wed. Anatomy at 10 o'clock ; Physiology at 1 o'clock.
„	26.	Thur. Materia Medica and Therapeutics at 10 o'clock.

Candidates may postpone their Examination in Materia Medica and Therapeutics until the close of the Summer Session following.

July	10.	Fri. Names to be given in, and Fees paid <i>on or before</i> this date.
„	16.	Thur. Certificates to be examined from 10 to 1.

### *Written Examination.*<sup>1</sup>

„	20.	Mon. Anatomy at 10 o'clock ; Physiology at 1 o'clock.
„	21.	Tues. Materia Medica and Therapeutics at 10 o'clock.

### THIRD PROFESSIONAL EXAMINATION.

This Examination takes place in March and July, and Candidates who have passed the Second Examination may be admitted to this Examination at the end of their Fourth Winter Session, on production of certificates of attendance on the Classes.

<sup>1</sup> Lists of days and hours for the Oral Examinations, and for the Practical Chemistry Examination, will be posted at the University as soon as arranged.

1903.  
 Mar. 17. Tu. Names to be given in, and Fees paid *on or before* this date.  
 „ 26. Thur. Certificates to be examined from 10 to 1.  
*Written Examinations.*<sup>1</sup>  
 „ 27. Fri. Pathology at 10 o'clock ; Forensic Medicine, 1 to 2.30 ; Public Health, 3 to 4.30.

- July 15. Wed. Names to be given in and Fees paid *on or before* this date.  
 „ 21. Tu. Certificates to be examined from 10 to 1.  
*Written Examination.*<sup>1</sup>  
 „ 22. Wed. Pathology at 10 o'clock ; Forensic Medicine, 1 to 2.30 ; Public Health, 3 to 4.30.

#### FOURTH OR FINAL PROFESSIONAL EXAMINATION.

This Examination takes place in May and June, and may be taken when the Candidate has passed the Third Examination, and has completed his Fifth year of Medical Study.

- April 16. Thur. Names to be given in and Fees paid *on or before* this date.

- „ 21. Tu. }  
 „ 22. Wed. } Certificates to be examined from 10 to 1.

#### *Written Examinations.*

- May 1. Fri. Clinical Medicine Examination begins.  
 „ 27. Wed. Clinical Surgery Examination begins.  
 June 15. Mon. Medicine at 10 o'clock ; Midwifery at 1 o'clock.  
 „ 16. Tu. Surgery at 10 o'clock ; Forensic Medicine, 1 to 2.30 ; Public Health, 3 to 4.30.

#### DEGREE OF DOCTOR OF MEDICINE.<sup>2</sup>

- April 30. Th. Theses to be lodged, Certificates shown, and Fees paid *on or before* this date.

#### *Written Examinations.*<sup>1</sup>

- June 19. Fri. Names to be entered and Fees paid by Candidates for Clinical Examination only *on or before* this date.  
 July 3. Fri. Clinical Medicine Examination begins at 9.45 A.M.

#### DEGREE OF MASTER OF SURGERY.<sup>2</sup>

- April 30. Th. Theses to be lodged, Certificates shown, and Fees paid *on or before* this date.

<sup>1</sup> See footnote 1, page 406.

<sup>2</sup> If Theses and Certificates are not lodged, or fees not paid, on or before the dates specified, a late-entry fee of 10s. will be charged. See also Regulations as to entering for Examinations, page 405.

## 408 *Graduation in Medicine—Dates of Examinations.*

1903.

### *Written Examinations.*<sup>1</sup>

- |      |     |      |  |
|------|-----|------|--|
| June | 19. | Fri. | Names to be entered and Fees paid by Candidates for Clinical Examination only <i>on or before</i> this date.                     |
| July | 3.  | Fri. | Surgical Anatomy, Operations on the dead body. Clinical Surgery Examinations begin.  |
| „    | 16. | Th.  | Names to be given in for Graduation, and the Registration Fee (if not previously registered) paid <i>on or before</i> this date. |
| „    | 25. | Sat. | GRADUATION CEREMONIAL at 10 A.M. Graduands to assemble at 8.30 A.M.  |

Information relative to Matriculation and the Curriculum of Study, and the Subjects of Examinations for Degrees in Medicine and Surgery, and for Fellowships, Scholarships, Bursaries, Prizes, &c., &c., may be obtained on application to the Dean of the Faculty of Medicine, University New Buildings.

The fees for Matriculation, for Examinations for Degrees, and for Registration as Member of the General Council of the University, are payable at the *Matriculation Office, University (Old) Buildings*. Candidates may pay the fees personally, or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh*," but not by cheques on private accounts. A Candidate is not held to be entered until his schedule is lodged, the fee paid, and a pass to the Examination obtained.

## EXTRA-ACADEMICAL TEACHERS, WHOSE LECTURES QUALIFY FOR GRADUATION IN THIS UNIVERSITY.

### REGULATIONS OF THE UNIVERSITY COURT RELATIVE TO CERTIFICATES OF ATTENDANCE.

The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers, should, in all cases, state the number of Lectures, or of Meetings for Practical Instruction, in the Course; the number of occasions on which attendance was ascertained; and the number of those occasions on which the Student was present, and in what further respects he duly performed the work of the class. The Certificate should also state the general scope of the Course; and, in particular, in the case of *Chemistry*, that the Course included Organic as well as Inorganic Chemistry; in the case of *Midwifery*, that it included the Diseases of Women and Children; and, in the case of *Practical Materia Medica*, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

<sup>1</sup> See footnote 1, page 406.

ABERYSTWYTH.

		<i>Date of Recognition.</i>
J. R. Ainsworth Davis, M.A.	Natural History,	28 July 1886.
D. Morgan Lewis	Physics,	16 July 1894.
J. H. Salter, D.Sc.	Botany,	30 Oct. 1893.

BANGOR.

James J. Dobbie, D.Sc.,	{ Chemistry & Prac- tical Chemistry, }	30 May 1885.
Reginald W. Phillips, M.A.,	Botany,	30 May 1885.
Philip J. White, M.B.,	Natural History,	9 Dec. 1889.

BELFAST.

R. O. Cunningham, M.D.,	Zoology,	18 Feb. 1895.
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CARDIFF.

A. Francis Dixon, M.B.,	{ Anatomy & Prac- tical Anatomy, }	18 July 1898.
John Berry Haycraft, M.D.,	Physiology,	16 July 1894.
J. V. Jones, M.A., B.Sc.,	Physics,	16 July 1894.
W. N. Parker, Ph.D.,	Natural History,	28 July 1886.
Arthur L. Selby, M.A.,	Physics,	21 Oct. 1895.
Claude M. Thompson, M.A., D.Sc.,	{ Chemistry & Prac- tical Chemistry, }	28 July 1886.

*(Lecture Course may be divided between two consecutive Sessions.)*

A. H. Trow, B.Sc.,	Botany,	16 July 1894.
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CORK.

J. J. Charles, M.D., D.Sc.,	Physiology,	18 Feb. 1895.
<i>(Qualifying Course to embrace "Ordinary Course" and Course for Senior Students.)</i>		

Marcus Hartog, M.D., D.Sc.,	Zoology,	18 Mar. 1895.
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DUBLIN.

A. C. Haddon, M.A.,	Natural History,	23 Jan. 1888.
Chs. R. C. Tichborne, Ph.D.,	Practical Chemistry,	28 Feb. 1881.

EDINBURGH.

A. P. Aitken, D.Sc.,	{ Chemistry & Prac- tical Chemistry, }	29 Oct. 1888.
J. O. Affleck, M.D.,	Practice of Physic,	8 Dec. 1879.
J. W. Ballantyne, M.D.,	Midwifery,	13 Dec. 1897.
R. J. A. Berry, M.D.,	Anatomy,	14 Dec. 1896.
Byrom Bramwell, M.D.,	Practice of Physic,	18 Oct. 1880.

410 *Graduation in Medicine—Extra-Academical Teachers.*

EDINBURGH—*continued.*

*Date of Recognition.*

Alexander Bruce, M.D.,	{ Practice of Medi- cine,	18 Feb. 1901.
A. G. Bruce,	{ Practical Materia Medica,	18 June 1894.
Francis M. Caird, M.B., C.M.,	Surgery,	13 August 1886.
Wm. Craig, M.D.,	{ Materia Medica & Prac. Materia Med.,	14 July 1879.
T. W. Drinkwater, Ph.D.	{ Chemistry and Practical Chemistry,	8 March 1880. 14 July 1879.
William Duncan,	Prac. Materia Med.,	12 April 1886.
R. A. Fleming, M.A., M.D.	Medicine,	13 Dec. 1897.
E. S. Fry, M.B.,	{ Practical Materia Medica,	21 Oct. 1895.
G. H. Gemmell,	Practical Chemistry,	13 May 1901.
George A. Gibson, M.D.,	Practice of Physic,	9 Dec. 1889.
A. Lockhart Gillespie, M.D.,	Materia Medica,	25 Oct. 1897.
David Berry Hart, M.D.,	Midwifery,	22 Oct. 1894.
F. W. N. Haultain, M.D.,	Midwifery,	15 June 1891.
J. W. B. Hodsdon, M.D.,	Surgery,	3 August 1888.
John Hunter, F.I.C., &c.,	{ Chemistry & Prac- tical Chemistry,	2 Oct. 1894.
Alex. James, M.D.,	Practice of Physic,	3 August 1888.
Alexander Johnstoue,	Botany,	26 Oct. 1892.
J. Falconer King, F.C.S.,	{ Chemistry & Prac- tical Chemistry,	12 Nov. 1894.
Harvey Littlejohn, M.D.,	{ Medical Juris- prudence,	17 May 1897.
W. Ivison Macadam, F.R.S.E.	{ Chemistry & Prac- tical Chemistry,	23 July 1888.
Stuart M'Donald, M.B.	{ Pathology & Prac- tical Pathology,	17 June 1901.
Robert Stewart MacDougall, M.A., D.Sc.	{ Botany,	17 Feb. 1902.
George Mackay, M.D.,	Ophthalmology,	13 July 1896.
J. S. M'Laren, M.B.,	Surgery,	26 Oct. 1892.
A. T. Masterman, D.Sc.,	Zoology,	13 Nov. 1899.
Alex. Miles, M.D.	Surgery,	14 Oct. 1901.
R. Milne Murray, M.B.,	Midwifery,	13 August 1886.
D. Noël Paton, M.D.,	{ Physiology and Prac. Physiology,	24 Oct. 1887. 19 March 1888.
R. W. Philip, M.D.,	Medicine,	16 July 1894.
George M. Robertson, M.B.,	Mental Diseases,	16 Oct. 1899.
W. G. Aitchison Robertson, M.D.	{ Public Health,	10 April 1897.
William Russell, M.D.,	{ Pathology & Prac- tical Pathology,	6 August 1887.



EDINBURGH—*continued.*

*Date of Recognition.*

Theodore Shennan, M.D.,	Pathology,	16 Oct. 1899.
Alexis Thomson, M.D.,	Surgery,	30 Oct. 1893.
James Adam Terras, B.Sc.,	Botany,	12 Dec. 1898.
Dawson F. D. Turner, M.D.,	Physics,	20 March 1893.
David Wallace, M.B.,	Surgery,	14 Dec. 1896.
J. R. Whitaker, M.B.,	Anatomy,	16 July 1894.
William Wood, M.B.,	{ Materia Medica,	} 27 March 1902.
	{ Practical Materia Medica,	
Gregg Wilson, M.A., D.Sc.	Zoology,	18 Nov. 1901.

GLASGOW.

John Barlow, M.D.,	{ Physiology,	} 26 Nov. 1883.
	{ Prac. Physiology,	
A. M. Buchanan, M.D.,	{ Anatomy and Prac-	} 12 Oct. 1874.
	{ tical Anatomy,	
H. E. Clark, M.D.,	Surgery,	12 Feb. 1894.
John Edgar, M.D., B.Sc.,	Midwifery,	14 Dec. 1896.
Samson Gemmell, M.D.,	Practice of Physic,	18 July 1881.
R. Barclay Ness, M.A., M.B.,	{ Materia Medica &	} 16 Dec. 1895.
	{ Prac. Materia Med.	
Alex. Robertson, M.D.,	Practice of Physic,	15 June 1891.
W. Ernest F. Thomson,	{ Physiology & Prac-	} 13 Feb. 1899.
	{ tical Physiology,	

LIVERPOOL.

J. Wigglesworth and the Lancashire County Asylum,	{ Mental Diseases,	} 18 Dec. 1899.
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LONDON.

H. E. Armstrong, Ph.D., F.R.S.,	{ Chemistry,	{ 25 Oct. 1897.
W. E. Ayrton, F.R.S., (Lecturers in the City and Guilds of London Institute.)		
	{ Physics,	{ 25 Oct. 1897.

*(Courses to include First and Second Years of Study.)*

G. B. Howes,	Natural History,	18 July 1887.
Albert Griffiths,	{ Physics,	{ 17 June 1901.
John E. MacKenzie, (Lecturers Birkbeck Instit.)		
	{ Chemistry,	{ 17 June 1901.

NOTTINGHAM.

J. W. Carr, M.A.,	Botany,	16 Jan. 1893.
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## SHEFFIELD.

Christopher Addison, M.D.,	Anatomy,	12 Dec. 1898.
C. F. Myers Ward.	Physiology,	16 Jan. 1899.
W. Carlton Williams, B.Sc.,	{ Chemistry & Prac- tical Chemistry,	{ 26 Nov. 1883.

## SOUTH AFRICAN COLLEGE, CAPE TOWN.

P. D. Hahn, Ph.D., M.A.	{ Chem. (Theoretical and Practical),	{ 22 Oct. 1900.
J. C. Beattie, D.Sc.,	Physics,	22 Oct. 1900.

**B.—ABRIDGED REGULATIONS FOR GRADUATION  
IN MEDICINE AND SURGERY, APPLICABLE  
TO ALL WHO COMMENCED THEIR MEDICAL  
STUDIES BEFORE 1ST OCTOBER 1892.**

*For full Regulations see CALENDAR for 1898-99 or previous CALENDARS.*

Three Degrees are conferred—viz., Bachelor of Medicine (M.B.), Master in Surgery (C.M.), and Doctor of Medicine (M.D.).

**DEGREES OF BACHELOR OF MEDICINE AND MASTER IN  
SURGERY (M.B., C.M.).**

*Preliminary Examination.*<sup>1</sup>—The preliminary subjects of examination are English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics; and any two of Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy. The examinations in English, Latin, Arithmetic, and Mathematics, are the same as in English, Latin, and Mathematics (which includes Arithmetic) for M.B., Ch.B.; and the examination in Mechanics is the same as that in Dynamics in the Arts and Science Preliminary Examinations.

*See Time-Table of Examinations, Dates of Entering and Payment of Fees, &c., pp. 396 and 397.*

*Professional Education.*—The chief differences between the Old and New Regulations are:—Candidates for Graduation under the Old Regulations are not required to attend courses on Physics, Mental Diseases, Diseases of the Eye, Diseases of Children, Diseases of the Larynx, Ear and Nose, Clinical

<sup>1</sup> The Dean of the Faculty will give information regarding examinations which exempt from the Preliminary Examination; and see also CALENDAR for 1892-93, and previous CALENDARS, for examinations which exempt.

Instruction in Fevers, Post-Mortem Examinations, Clerking and Dressing in a Public Hospital, Diseases of the Skin. In Practical Anatomy they are only required to attend a five months' course; in Clinical Medicine and Clinical Surgery one course of five months, or two courses of three months each, and Hospital attendance for twenty-four months.

*Professional Examinations.*—The only differences are:—Candidates under the Old Regulations are not examined in Physics in the First Professional Examination. The Regulations for entering for the First and Second Professional Examinations, and for payment of Fees are the same as for M.B., Ch.B. The Examinations in Pathology are held at the same time as the Examinations in that subject for M.B., Ch.B.; *but the regulations for entering and payment of Fees are as for the Second Professional Examination.* The examinations in the subjects of the Final Examination take place at the same time as in the corresponding subjects for M.B., Ch.B. Names to be entered and fees paid on or before 16th April. See Time Table of Examinations, pp. 396, 397.

Otherwise the Regulations are the same as for M.B., Ch.B.

For further information apply to the Dean of the Faculty.

*Optional Preliminary Subjects of Examination under the Old Regulations for Bachelors of Medicine and Masters in Surgery (M.B., C.M.) who intend to proceed to the Degree of Doctor of Medicine, and for those who commenced the Study of Medicine by attendance on Medical Classes before 1st October 1892, for Autumn 1902 and Spring 1903 inclusively.*

Each Candidate is required to pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

1. GREEK.—Xenophon, *Cyropaedia*, Book V. Some easy sentences of English will be set to be translated into Greek, and Grammar.

2. FRENCH.—Alphonse Daudet's *Le petit Chose, première partie* (Hachette & Co.). An easy passage in English will be given for translation into French, and Grammar.

3. GERMAN.—Hornmann, *Deutsche Märchen*, Nos. 8-14. An easy passage in English will be given for translation into German, and Grammar.

4. HIGHER MATHEMATICS.—Same as Higher Mathematics for the Preliminary Examination for the Degree of M.A.

5. NATURAL PHILOSOPHY.—(1) Properties of matter—Elasticity, Density, Porosity, Capillarity, &c. (2) Elementary phenomena of Sound, Light, Heat, Electricity, and Magnetism. Text-Books recommended—Balfour Stewart's *Elementary Physics*, and Tait's *Properties of Matter*.

6. LOGIC.—The Elements of Deductive and Inductive Logic, as in Jevons's Elementary Lessons.

7. MORAL PHILOSOPHY. — Professor Seth's *Ethical Principles*, Introduction and Part I.

## DEGREE OF DOCTOR OF MEDICINE.<sup>1 2</sup>

*For full Regulations see CALENDAR for 1898-99 or previous CALENDARS.*

XVII. The Degree of DOCTOR OF MEDICINE may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Master in Surgery, and is of the age of twenty-four years, and produces a certificate of having been engaged subsequently to his having received the Degrees of Bachelor of Medicine and Master in Surgery, for at least two years in attendance on an Hospital, or in the Military or Naval Medical Services, or in Medical and Surgical Practice:

Provided always that the Degree of Doctor of Medicine shall not be conferred on any person, unless he be a Graduate in Arts of one of the Universities of England, Scotland, or Ireland, or of such other Universities as have been specially recognised for that purpose, or unless he shall, before or at the time of his obtaining the Degrees of Bachelor of Medicine and Master in Surgery, or thereafter, have passed a satisfactory examination in Greek, and in either Logic or Moral Philosophy, and in one of the following subjects at the option of the Candidate—namely, French, German, Higher Mathematics, and Natural Philosophy.

And provided also that the candidate for the Degree of Doctor of Medicine shall submit to the Faculty of Medicine a Thesis, certified by him to have been composed by himself, and which shall be approved by the Faculty, on any branch of knowledge comprised in the professional examinations for the Degrees of Bachelor of Medicine and Master in Surgery, which he may have made a subject of study after having received those Degrees. The Candidate must lodge his Thesis with the Dean on or before 30th April of the year in which he proposes to graduate. No

<sup>1</sup> Candidates for M.D. under Old Regulations, who have not passed all the required Preliminary subjects may, if they prefer to do so, go under the new Regulations, and take the examination in Clinical Medicine instead. (See pp. 391-393.)

<sup>2</sup> Bachelors of Medicine and Masters of Surgery may under the provisions of Section XXI. of the New Regulations proceed to the Degree of Doctor of Medicine in the same manner as if they had graduated as M.B., Ch.B. See page 391.

Thesis will be approved by the Medical Faculty which does not contain either the results of original observations in practical Medicine, Surgery, Midwifery, or in some of the sciences embraced in the curriculum for the Bachelor's and Master's Degrees; or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the Candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.<sup>1</sup>

Candidates, settled for a period of years in foreign parts, who have complied with all the regulations for the Degree of M.D., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them in absence.

#### FEES FOR DEGREES, &c.

Examination in Botany, Chemistry, Chemical Testing, Natural History, . . . . .	£5 5 0
Examination in Anatomy, Institutes of Medicine, Materia Medica, Prescriptions, Pathology, . . . . .	5 5 0
Final Examination in Surgery, Midwifery, Practice of Physic, Forensic Medicine and Public Health, Clinical Medicine (with Prescriptions), Clinical Surgery, during last Summer Session, . . . . .	10 10 0
Total Fees for M.B. and C.M. Diplomas, . . . . .	<u>£21 0 0</u>
Fee for M.D., . . . . .	£5 5 0
Matriculation Fee, . . . . .	1 1 0

In the event of the Candidate failing to pass any one of the Professional Examinations, the Fee is not returned; but he may appear at one subsequent examination without paying an extra Fee, and at any future examination on paying a Fee of £2, 12s 6d.

1903.

- April 30. Th. Theses to be given in, Certificates shown, and Fees paid *on or before* this date.
- July 16. Th. Names to be given in for Graduation *on or before* this date.<sup>2</sup>
- „ 25. Sat. GRADUATION CEREMONIAL at 10 A.M. Graduands are required to assemble at 8.45 A.M.

<sup>1</sup> Candidates are required to write their Theses on faint lined paper, 11 in. by 8½ in. with margins 1½ in. at each side. The Thesis is to be written on one side of each leaf only. There is no regulation as to length of Theses.

<sup>2</sup> If Theses and Certificates are not lodged, or fees not paid, on or before the date specified, a late-entry fee of 10s. will be charged. See also Regulations as to entering for Examinations, page 405.

## REGULATIONS FOR INSTRUCTION AND FOR SPECIAL CERTIFICATE IN DISEASES OF TROPICAL CLIMATES.<sup>1</sup>

1. Each Course of Instruction shall be open to (1) Qualified Medical Practitioners ; (2) Students who have completed the Curriculum for the Final Examination in Medicine of any of the Qualifying Medical Authorities ; and (3) others specially interested in the subject.

2. Certificates of attendance will be granted as follows :—(a) A Class Certificate to each member of the Class who has performed the work of the Class in a satisfactory manner ; (b) A University Certificate by the Dean of the Faculty of Medicine to each member of the Class who besides having attended the course of instruction in Tropical Diseases, has attended a course of instruction on Practical Bacteriology, including the Micro-organisms of Tropical Diseases, and who has performed the work of both of these Classes in a satisfactory manner. This Certificate shall be based on evidence received from the Teachers on Practical Bacteriology and Tropical Diseases.

REGULATIONS FOR SPECIAL STUDY AND RESEARCH, AND FOR THE APPOINTMENT OF RESEARCH FELLOWS, &c. See page 121.

REGULATIONS FOR THE DEGREE OF D.Sc., &c. See page 123.

## DOCTORS OF MEDICINE

WHO HAVE BEEN AWARDED GOLD MEDALS FOR THEIR THESES FROM 1889 TO 1901 INCLUSIVELY.<sup>2</sup>

1889.	
Herbert H. Ashdown, England	Henry Alexis Thomson, Scotland
John W. Ballantyne, Scotland	Joseph Tillie, Scotland
Arthur J. M'D. Bentley, England	Herbert F. Waterhouse, England
Kenneth M. Douglas, Scotland	1890.
Thomas A. Helme, England	Joseph Griffiths, Wales
	Robert Muir, Scotland

<sup>1</sup> To obtain this Special Certificate or Class Certificates the full matriculation fee (£1, 1s.) must be paid.

<sup>2</sup> The names of those who received Gold Medals prior to 1859 will be found in the List of Graduates in Medicine of the University of Edinburgh since its foundation. published in 1867, and the names of those who received Gold Medals from 1859 to 1888, both years included, will be found in the Historical Appendix to List of Graduates, published in 1889, pp. 128, 129.



George Edmund Piercez, Ceylon  
W. G. A. Robertson, Scotland  
Arthur Robinson, England  
John David Williams, Wales

1891.

Edmund W. W. Carlier, England  
Vaughan Berkeley Harley, England  
David Hepburn, Scotland  
Alexander Miles, Scotland  
James Ritchie, Scotland  
George Neil Stewart, Scotland  
John Clarence Webster, Canada

1892.

George Sandison Brock, Scotland  
Alex. Lockhart Gillespie, Scotland  
William Aldren Turner, Scotland  
Arthur John Whiting, England  
Theodore Stacey Wilson, England

1893.

Francis Darby Boyd, Scotland  
James Samuel Risien Russell  
Demerara  
James Lorrain Smith, Scotland  
John Cleasby Taylor, England  
William Ernest Francis Thomson,  
Scotland

1894.

Lewis Campbell Bruce, Scotland  
William Menzies Hutton, Scotland  
Gustav Mann, India  
James Acworth Menzies, Scotland  
John Douglas Stanley, Ireland

1895.

Frank Leigh Ehrke, England  
Wilfred Vincent Miller Koch,  
Ceylon  
James Ritchie, Scotland  
Andrew Walker, Scotland

1896.

Robert Swan Aitchison, Scotland  
William Elder, Scotland

Robert Alexander Fleming, Scot-  
land  
Claude Buchanan Ker, England  
John Macpherson, Scotland  
Thomas Hugh Milroy, Scotland  
George Robert Wilson, Scotland

1897.

Friedrich Wilhelm Eurich, M.D.,  
Saxony  
William Edward Fothergill, M.D.,  
England  
Thomas Alexander Wemyss Ful-  
ton, M.D., Scotland  
David Arthur Welsh, M.D., Scot-  
land

1898.

Andrew Balfour, M.D.  
Alexander Corsar Sturrock, M.D.

1899.

Robert William Beesley, M.D.,  
England  
Dina Nath Prithu Datta, M.D.,  
India  
Percy Theodore Herring, M.D.,  
England  
Jessie MacLaren MacGregor,  
M.D., Scotland  
John Malcolm, M.D., Scotland  
William John Munro, M.D.,  
Australia

1900.

Walter William Chipman B.A.,  
M.D., Canada  
David James Galloway, M.D.,  
Scotland  
David Waterston, M.A., M.D.,  
Scotland

1901.

James Martin Beattie, M.D.  
Thomas Hastie Bryce, M.D.  
Evan John Hewat Fraser, M.D.  
Alfred Charles Standstein, M.D.  
Sutherland Simpson, M.D.  
Donald Bremner Waters, M.D.

DOCTORS OF MEDICINE WHO GRADUATED ON 27<sup>TH</sup> JULY 1901,  
WITH THE TITLES OF THEIR THESES.\*\*\* *Awarded Gold Medals for their Theses.*\*\* *Highly commended for their Theses.*\* *Commended for their Theses.*

- \* Robert Oswald Adamson (M.A.), Scotland, M.B., C.M. (with First-Class Honours), 1889. Perforation of the Stomach in Simple Gastric Ulcer: A record of seven cases, with reference chiefly to the earliest symptoms and the diagnosis.
- \* Alexander Cruickshank Ainslie (M.A.), Scotland, M.B., C.M., 1894. An Investigation into the Structural Changes in the Arteries in General Paralysis of the Insane.
- John Charles Atkinson, Chili, M.B., C.M., 1894. Some forms of Paralysis in Children, with special reference to those of Congenital origin.
- \*\*\* James Martin Beattie (M.A.), New Zealand, M.B., C.M. (with First-Class Honours), 1894. The Cells found in Inflammatory Exudations: An experimental research as to their function and destiny, and also as to the origin of the Mononucleated Cells.
- 5\* John Macaulay Bowie, Scotland, M.B., Ch.B., 1898. The Leucocytosis of Scarlatina and Scarlatinal Complications.
- \* Henry Reynolds Brown (M.A.), Scotland, M.B., C.M., 1894. Puerperal Fever in relation to the Infectious Diseases Notification Act of 1889.
- \* Henry Grey Brown, Scotland, M.B., C.M., 1896. A Bacteriological Investigation of 82 cases of Skin Disease treated at the Edinburgh Royal Infirmary during the winter of 1900-1901.
- \* Robert Nichol Brebner, Canada, M.B., Ch.B., 1898. Micro-organisms in the Air of Railway Carriages.
- Robert Cathcart Bruce, India, M.B., C.M., 1880. Fatalities after the administration of Anæsthetic Ether, 1875-1900: An Enquiry.
- 10\*\*\* Thomas Hastie Bryce (M.A.), Scotland, M.B., C.M., 1886. Maturation of the Ovum in Echinus: A cytological study, with special reference to the Reduction of the Chromosomes.
- Robert Dick Buchanan, Scotland, M.B., C.M., 1889. Typhus Fever.
- Morton Burnet, Scotland, M.B., C.M. 1894. Remarks on Pulmonary Tuberculosis, with special reference to its Prophecy-

- laxis and Sanatorium Treatment.
- \* Frederick Harold Carlyon, England, M.B., C.M., 1888. Prolapse of the Rectum.
- Bernard Ramsay Craig Christie, Scotland, M.B., C.M., 1897. Hypnotics, with special reference to their use in Mental Disease.
- 15\* Edgar Ferdinand Cyriax, England, M.B., Ch.B., 1898. The Elements of Kellgren's Manual Treatment.
- Daniel Rees Davies, England, M.B., C.M., 1883. Lobar Pneumonia.
- Walter Dickson, Scotland, M.B., C.M., 1890. The Heart in Old Age and its Morbid Conditions.
- Daniel Charles Edington, Scotland, M.B., C.M. (with Second-Class Honours), 1892. Epidemic Arsenical Poisoning in Beer-Drinkers: A Clinical and Public Health Study.
- \*\* Richard Cogswell Elsworth, England, M.B., C.M., 1888. Chronic Suppurative Otitis Media and its Consequences, with an account of the Anatomy of the Temporal Bone.
- 20 David Smart Evans, Wales, M.B., C.M., 1895. Hydatid Disease, with some suggestions in relation to the conditions favouring its occurrence in the Colliery Districts of South Wales.
- Gordon William FitzGerald, Trinidad, M.B., C.M., 1898. The Use of the Curette in the Practice of Obstetrics.
- \*\* Duncan Forbes, Scotland, M.B., Ch.B. (with Second-Class Honours), 1898. A Study of Experimentally Produced Infarcts of the Kidney.
- Thomas Dewar Forbes, Scotland, M.B., C.M., 1894. Two Cases of Carditis, with an examination of the evidence in favour of the microbic origin of Acute Rheumatism.
- \*\*\* Evan John Hewat Fraser, England, M.B., C.M. (with First-Class Honours), 1894. An Experimental Research into the relations and connections of certain Nerve Tracts and Nuclei in the Medulla and Pons, especially those of the Posterior Longitudinal Bundle and Deiters' Nucleus.
- 25\* Harry Edward Gibbs, New Zealand, M.B., Ch.B., 1898. Hemoglobinuria from the Hemolytic Aspect.
- \*\* Alexander Goodall, Scotland, M.B., Ch.B., 1898. Observations on cases of Pernicious Anæmia, with special reference to the blood changes.
- \*\* Thomas Duncan Greenlees, Scotland, M.B., C.M., 1882. The Circulatory System of the Insane.
- \*\* George Kerr Grimmer (B.A.), Canada, M.B., C.M., 1892. A contribution to the Pathology and

- Diagnosis of Tuberculous Otitis Media.
- Robert Lyall Guthrie (M.A.), Scotland, M.B., C.M., 1892. Malignant Disease of the Pancreas.
- 30\*\* Arthur Cecil Heath, England, M.B., Ch.B., 1899. The Intracranial Lymphatic Systems.
- Alexander Hendry, Scotland, M.B., C.M., 1892. Milk Diet in Chronic Diarrhoea.
- \*\* John Thomas Hewetson, England, M.B., C.M. (with Second-Class Honours), 1896. The Clinical Significance of Leucocytosis in Surgical and Medical Practice.
- \* John Hume, Scotland, M.B., C.M., 1884. An Inquiry into the subject of Eczema, with a record of cases and statistics regarding hereditary transmission.
- \*\* Louis Godfrey Irvine (M.A., B.Sc.), Scotland, M.B., C.M., 1892. Notes on Gunshot Wounds.
- 35 Charles Harold Johnson, Australia, M.B., C.M., 1896. Dextro Cardia. Two cases, with comments.
- William Kinnear (M.A.), Scotland, M.B., C.M., 1888. Histological changes in the Kidney produced by the action of drugs.
- William Broad Kirkaldy, England, M.B., C.M., 1880. Detachment of the Retina.
- \* Thomas Knowles, England, M.B., C.M., 1890. The action of *Primula Obconica* on Cutaneous surfaces.
- \* Louis Francis Behagen Knuthsen, West Indies, M.B., C.M., 1893. Obstinate Hiccough.
- 40\* Robert Laidlaw, Scotland, M.B., 1873. The Plague. (*In absentia*.)
- \*\* Gerald Rowley Leighton, England, M.B., C.M., 1895. The Reptilia of the Monnow Valley.
- \*\* Sreenagula Mallannah, India, M.B., C.M., 1896. Prophylaxis of Plague.
- \* Thomas Muirhead Martin, Scotland, M.B., C.M., 1892. Infantile Diarrhoea.
- George Home Munro-Hume, New Zealand, M.B., C.M., 1890. Ectopia Testis in Childhood.
- 45 Athelstane Nobbs, England, M.B., C.M., 1892. Thyroid Treatment in General Practice.
- David William Horn Pater-son, Scotland, M.B., C.M., 1892. Heredity.
- \* Charles Edward Potter, Scotland, M.B., C.M., 1894. Old age, its pathology and treatment.
- \*\* John Vernon Rees Roberts (B.Sc.), Wales, M.B., C.M., 1897. Variations in the Ossifications of the Human Skull.
- \*\* Thomas Arthur Ross, Scotland, M.B., C.M., 1897. Certain relationships between Pleurisy and Tuberculosis.
- 50\*\*\* Alfred Charles Sandstein, New Zealand, M.B., Ch.B. (with First-Class Honours), 1898. Some Problems in Obstetrics. — I. The esti-

mation of the length of the transverse and true conjugate diameters of the pelvic brim. II. The operation of Symphysiotomy, and the true significance of section of the pubic symphysis and the subsequent movements of the innominate bones.

\*\*\* Sutherland Simpson (B.Sc.), Scotland, M.B., Ch.B., 1899. Secondary Degeneration following Unilateral Lesions of the Cerebral Motor Cortex.

\* Edgar Somerville, England, M.B., Ch.B., 1898. Functional Albuminuria.

\* Harry Bird Sproat, Scotland, M.B., Ch.B., 1899. Reynaud's Disease, with notes of Cases.

\* William Anderson Stephen (M.A.), Scotland, M.B., C.M. (with First-Class Honours), 1894. Auto-Intoxication in Pregnancy.

55 Gabriel Hendrik Steyn, Cape Colony, M.B., C.M., 1887. Short Stage of Incubation in Enteric Fever. Con-junctival Anæsthesia. Con-currence of Infectious Diseases.

\* George Crewdson Thomas,

England, M.B., C.M., 1897. A Critical Review of the after histories of 100 cases of Supra-Vaginal Hysterectomy for Fibroids.

\* William Fookes Thompson, England, M.B., C.M., 1882. The Manufacture of "Arsenic," and the Diseases most common amongst the men engaged in it.

Arthur Harry Hingston Vizard, England, M.B., C.M., 1893. Cerebro-Spinal Fever.

\*\*\* Donald Bremner Waters (M.A.), Scotland, M.B., Ch.B. (with First-Class Honours), 1898. Changes produced in Nerve Cells by various experimental conditions.

60\* Andrew Robertson Wilson (M.A.), Scotland, M.B., C.M. (with First-Class Honours), 1895. The Symptoms and Diagnosis of Tumours of the Frontal Lobes of the Brain.

Andrew Hamilton Wood, Scotland, M.B., Ch.B., 1899. Some observations in the treatment of Pneumonia with Salicylate of Soda.

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.) WHO HAVE PASSED THE EXAMINATIONS WITH HONOURS FROM 1889 TO 1901, BOTH YEARS INCLUDED. <sup>1</sup>

1889.

*Class I.*

Robert Oswald Adamson (M.A.), Scotland

John William Crerar, Scotland

William Fred. Farquharson, Scot.  
James Lackie, Scotland

Jas. Hill Williamson Laing (M.A., B.Sc.), Scotland

Hamilton Graham Langwill, Scot.

<sup>1</sup> For names of those who received the Degrees with Honours prior to 1889, see Historical Appendix to List of Graduates of the University published in, 1889, pp. 129-132.

Alexander Maclean, Scotland  
Eustace G. Pilgrim, Barbados  
Wm. Gordon Woodrow Sanders,  
Scotland  
James Andrew Thyne, Scotland  
George Wilkinson, England

*Class II.*

Robert Dunlop Reid Allison, Scot-  
land  
William Everett, England  
George Alfred Walter, England  
Colin Gordon, England  
Ewan John Maclean, Wales  
James Monteith, Scotland  
Benjamin Sweeten, Scotland  
C. N. C. Wimberley, Scotland

1890.

*Class I.*

Charles James Whitehead Dixon,  
England  
Carstairs Cumming Douglas, Scot.  
Gerald Fitzgerald, Scotland  
Robert Main Horne, Scotland  
Colin Forbes Lees, Scotland  
William Paterson, Scotland  
George William Thompson, La  
Plata  
William Kerr Walker, Scotland

*Class II.*

Ed. H. Alexander, New Zealand  
Robert Brown, Scotland  
John Wheeler Dowden, Ireland  
George Balfour Marshall, Scotland  
Arnold W. Williams, England

1891.

*Class I.*

John Wardle Bone, England  
Wm. Blackley Drummond, Scot.  
George Elder, Scotland  
Edward Barnard Fuller, Africa  
Henry Baker Hall, England  
George Hennan, Scotland  
Herbert Saunders Wansbrough  
Jones (B.Sc.), Wales  
Harry Rainy (M.A.), Scotland

*Class II.*

Robt. J. Ashton (B.A.), England  
Robert Cran, Scotland  
Frederich Wilhelm Eurich, Saxony  
David J. Mackenzie (M.A.), Scot-  
land  
John Orr, Scotland  
David Stuart, Scotland  
Wm. J. Walker (B.A.), Australia  
Neish Park Watt (M.A.), Scotland  
John Thos. Wilson, Tasmania

1892.

*Class I.*

Alexander Brownlie, Scotland  
Charles Cromhall Easterbrook,  
(M.A.), England  
George Home, New Zealand  
Lim Boon Keng, Singapore  
Robert Murray Leslie (M.A.,  
B.Sc.), Scotland  
Donald Macaulay (M.A.), Scot.

*Class II.*

Alexander Douglas (M.A.), Eng.  
Daniel Charles Edington, Scot.  
John James Evans, Wales  
Arthur Fells, England  
James Stewart Fowler, Scotland  
Robert Walker Gray, Scotland  
Robert John Johnston, Scotland  
Geo. Wm. F. Macnaughton, Scot-  
land  
Philip Oscar Malabre, Jamaica  
Peter William Shaw, Scotland  
Alfred George Talbot (B.A.), New  
Zealand  
George Templeton, Scotland

1893.

*Class I.*

Charles Crerar, Scotland  
John Buchanan Duff, Scotland  
Alex. M. Easterbrook, Scotland  
Wm. E. Fothergill (M.A., B.Sc.),  
England  
Robert Hutchison, Scotland  
Robert H. Makgill, Scotland  
Jas. V. Paterson, M.A., Scotland  
David W. Sutherland, Australia



Hugh Walker (M.A.), Scotland  
D. A. Welsh (M.A.), Scotland

*Class II.*

William Randolph Center, Scot.  
Robert Craig Dun, Scotland  
George Harry Dupont, England  
Charles Alfred Hogg, Tasmania  
Charles Kerr, Scotland  
James G. Macnaughton, Scotland  
W. M'D. Selby, Scotland  
St John Stanwell, England  
John Steed, England  
John Tennant (M.A.), Scotland  
John Brown Yeoman, Scotland

1894.

*Class I.*

James Martin Beattie (M.A.),  
New Zealand  
Evan John Hewat Fraser, Eng-  
land  
George Brooke French, England  
Thomas Gibson (M.A.), Ireland  
John Rutherford Gilmour, Scot-  
land  
Neil MacVicar, Scotland  
William Anderson Stephen (M.A.),  
Scotland  
James Purves Stewart (M.A.),  
Scotland

*Class II.*

Robert William Beesley, England  
Robert Ward Briggs, England  
Alexander Keith Campbell, Scot-  
land  
Thomas H. C. Derham, England  
Charles Francis Lassalle, W. Indies  
James Donald Macrae, Scotland  
Hezlett Hamilton Marshall, Aus-  
tralia  
Arthur Maxwell Nicholson Pringle,  
Scotland

Walter Russell Strapp, Natal  
1895.

*Class I.*

Joseph Edward Bowes, England  
John Forbes (M.A.), Scotland  
William John Garbutt, England

Rhodes Haygarth, England  
Andrew Robertson Wilson (M.A.),  
Scotland

William De Wever Wishart, British  
Guiana

*Class II.*

James Gray, Scotland  
Albert Lewis Husband, England  
Robert MacWilliam Leith, Cape  
Colony  
William Lillie, India  
David Rankine (M.A.), Scotland  
David Waterston (M.A.), Scot-  
land  
James Rodger Watson (M.A.,  
B.Sc.), Scotland

1896.

*Class I.*

William Haining Carse, Scotland  
John Eason, Scotland  
Percy James Henderson, Scotland  
Percy Theodore Herring, England  
John George Patrick Murray,  
England  
Alexander Corsar Sturrock (M.A.),  
Scotland

*Class II.*

John Thomas Hewetson, Eng-  
land  
Alexander Petrie Lowe, Scotland  
Arthur David Yule, Scotland

1897.

*Class I.*

Harold Sherman Ballantyne  
(B.Sc.), Scotland  
William Frederic Harvey (M.A.),  
India  
George Carmichael Low (M.A.),  
Scotland  
Edwin Matthew (M.A.), Scotland

*Class II.*

William Finlay (Bach.-ès-Lett.),  
Scotland  
James Graham, Scotland  
Evan Harries Jones, Wales  
Leslie Kingsford, New Zealand  
Andrew Hutton Watt, Scotland

1898.

*Class II.*

Charles Chilton (M.A., D.Sc.),  
New Zealand  
William Henry Dawson (M.A.,  
B.Sc.), New Zealand

1900.

*Class II.*

John Charles Mitchell (D.Sc.),  
Scotland

1901.

*Class I.*

Harry Moss Traquair, Scotland

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY (M.B.,  
Ch.B.), WHO HAVE PASSED THE EXAMINATIONS WITH  
HONOURS FROM 1897 TO 1901 BOTH YEARS INCLUDED.

1897.

*Class I.*

Charles Miner Cooper, England  
John Smith Fraser, Scotland  
William Hamilton, England  
James Duncan Slight (M.A.),  
Scotland

*Class II.*

Bertram Cecil Robert Aldren,  
England  
Theodore Robert William Armour,  
Scotland  
John Malcolm, Scotland  
John William Struthers, Scotland

1898.

*Class I.*

William Neish Barker, Scotland  
Archibald Currie M'Gilchrist  
(M.A.), Scotland  
John Henry Rhodes, England  
Alfred Charles Sandstein, New  
Zealand  
Robert Frederick M'Nair Scott  
(B.A.), Scotland  
Donald Bremner Waters (M.A.),  
Scotland

*Class II.*

William Bell, England  
Stanley Branch, West Indies  
John Cameron (B.Sc.), Scotland  
George Dick, Scotland  
Robert James Dick, Scotland  
Duncan Forbes, Scotland  
George Edwin James King, England  
Henry Wade, Scotland

1899.

*Class I.*

William John Barclay (B.A.), New  
Zealand  
John Dixon Comrie (M.A., B.Sc.),  
Scotland  
George Lyon, Scotland  
Arthur Preston, England  
Charles Henry James Watson,  
England

*Class II.*

David Ewart, New Zealand  
James John Galbraith, Scotland  
John Gray Jack, Scotland  
Robina M'Gregor, Scotland  
Harry Malcolm MacKenzie, Scot-  
land  
James Masson (M.A., B.Sc.), Scot-  
land  
James Miller, (B.Sc.), Scotland  
William Moncrieff Paul (M.A.),  
Scotland  
Robert Morison Rowe (M.A.),  
Scotland  
William James Stuart (M.A.),  
Scotland

1900.

*Class I.*

George Scott Carmichael, Scot-  
land  
William Ernest Frost, Ireland  
George Henry Hanna, Jamaica  
John Pender, Scotland  
Robert Ainslie Ross, South Africa  
Arthur Murray Wood, Scotland

*Class II.*

Arthur Branfoot Black, Scotland  
Orlando Charnock Bradley, Eng-  
land  
Edward Ewart, Scotland  
James George Silver Jamieson  
(M.A.), Scotland  
Langworthy Laurie, England  
John Gordon M'Dougall, Scotland  
Arthur Anderson Martin, New  
Zealand  
Thomas Scott Shepherd, England  
Alexander Trotter, Scotland  
William Wallace, England  
Garnett Wright, England

1901

*Class I.*

Robert Tullis Baillie, Scotland.  
Alexander Clarke Begg, New Zea-  
land  
William Elliott Carnegie Dickson  
(B.Sc.), Scotland  
Andrew Hunter (M.A., B.Sc.),  
Scotland

Peter Murray (M.A.), Scotland  
Caleb Williams Saleeby, England  
Thomas Samuel Beauchamp  
Williams, Wales

*Class II.*

Richard James Bradley, Ireland  
George Cruickshank Burgess, Scot-  
land  
George Adam Davidson (M.A.),  
Scotland  
William Henry Dickinson, Eng-  
land  
Arthur Harcus Firth (M.A.), Scot-  
land  
Andrew Campbell Keay, Scotland  
George M'Farland, New Zealand  
George Robertson Mill, Scotland  
William Hogg Prentice (M.A.),  
Scotland  
George Cook Irvine Robertson  
(M.A.), Scotland  
Thomas Brown Shaw, Ireland

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

27TH JULY 1901.

*Small CAPITALS indicate First-Class Honours.*

*Italics, Second-Class Honours.*

Manindra Nath Bose, India  
Shaik Dawood, India  
Alfred Thomas Gavin, Scot.  
Paul Eugene Hedwige Giu-  
seppe, Trinidad  
5 John Hally Meikle (M.A.,  
B.Sc.), Scotland  
William Henry Meyer,  
Trinidad

James Donaldson Saner, Eng-  
land  
Walter Henry Swaffield, Eng-  
land  
HARRY MOSS TRAQUAIR,  
Scotland  
10 John Wallace, Scotland  
John Owen Williams, Wales

19TH OCTOBER.

Clarence Granville Hey, Eng-  
land  
Arthur Hutton M'Shine,  
Trinidad

Albert Cormac Peterson, Aus-  
tralia  
Percy Wilfred Shepherd, Eng-  
land

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY  
(M.B. AND Ch.B.).

27TH JULY 1901.

*Small CAPITALS indicate First-Class Honours.*

*Italics, Second-Class Honours.*

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| David Macrae Aitken (M.A.),<br>Straits Settlements | Arthur William Stark Christie,<br>Scotland           |
| John Finlay Allan, Scotland                        | 25 Robert Veitch Clark (M.A.,<br>B.Sc.), Scotland    |
| Charles Madill Anderson, Ire-<br>land              | Harry Lechmere Clift, India                          |
| Robert Vacy Clifford Ash,<br>South Africa          | William James Crow, Scotland                         |
| 5 ROBERT TULLIS BAILLIE,<br>Scotland               | Barbara Martin Cunningham,<br>Scotland               |
| James William Barrack, Scot-<br>land               | John Dalgliesh, British Guiana                       |
| ALEXANDER CLARKE BEGG,<br>New Zealand              | 30 <i>George Adam Davidson</i><br>(M.A.), Scotland   |
| Raphael Aaron Belilios, India                      | <i>William Henry Dickinson</i> ,<br>England          |
| John Henry Montgomerie Bell,<br>Scotland           | WILLIAM ELLIOT CARNEGIE<br>DICKSON (B.Sc.), Scotland |
| 10 Vivian Chastel de Boinville,<br>England         | Thomas George Boswall<br>Dodds, Scotland             |
| <i>Richard James Bradley</i> , Ire-<br>land        | Henry Dodgson, England                               |
| Edward Seymour Brett, Eng-<br>land                 | 35 Charles Douglas, Scotland                         |
| James Brocket, Scotland                            | James Laing Duncan, Scot-<br>land                    |
| Edward Elmslie Brown, Scot-<br>land                | William Arthur Duncan,<br>Scotland                   |
| 15 Golfina Maude Brown, Eng-<br>land               | William Inglis Dunn, Scotland                        |
| William Brown, Scotland                            | John Russell Edward, Scot-<br>land                   |
| James Brownlee, Scotland                           | 40 William Eggeling (M.A.),<br>Scotland              |
| Robert Wilson Buchanan<br>(M.A., B.Sc.), Scotland  | Owen John Evans, Wales                               |
| Henry Buist, Scotland                              | John William Falconer<br>(M.A.), Scotland            |
| 20 <i>George Cruikshank Burgess</i> ,<br>Scotland  | <i>Arthur Hareus Firth</i> (M.A.),<br>Scotland       |
| Edward Percy Calder, Scot-<br>land                 | Gavin Addie Forrest, Scotland                        |
| Kirkland Chapel, Scotland                          | 45 Stephen Garvin, Ireland                           |
| Charles Coley Choyce (B.Sc.),<br>New Zealand       | James Charles Gilchrist, Scot-<br>land               |
|  | Earnest Mure Glanville, Eng-<br>land                 |

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| <p>Robert Ashleigh Glegg, Scotland</p> <p>Thomas Graham, England</p> <p>50 Roderick M'Kenzie Grant, Scotland</p> <p>Arthur Leopold Gurney, England</p> <p>Arthur Rupert Hallam, England</p> <p>Agnes Moore Hamilton, Ireland</p> <p>Robert Hamilton, England</p> <p>55 William Hamilton, Ireland</p> <p>Niels Carl Rudolph Hansen (B.A.), Denmark</p> <p>Robert Alexander John Harper, Scotland</p> <p>Percival John Hay, England</p> <p>Eleanor Russell Henderson, Scotland</p> <p>60 David Colvin Henry, Scotland</p> <p>Charles William Howe, Scotland</p> <p>ANDREW HUNTER (M.A., B.Sc.), Scotland</p> <p>Andrew Edwin Hunter, Scotland</p> <p>Alexander Rea Johnston (M.A.), Scotland</p> <p>65 George Adam Jolly, Scotland</p> <p>Edgar Vaughan Jones, Wales</p> <p><i>Andrew Campbell Keay</i>, Scot.</p> <p>James Price Kennedy, Ireland</p> <p>Percy Vance Longmore, New South Wales</p> <p>70 Abdurrahman Khan Lauddie, India</p> <p>William Lee, England</p> <p>Creighton Hutchinson Lindsay, Ireland</p> <p>Samuel Lyle, Ireland</p> <p>James Graham M'Bride, Scotland</p> <p>75 Lawson Tait M'Clintock, England</p> <p>Hector Kenneth Macdonald, Scotland</p> | <p>William MacDougall (M.A.), Scotland</p> <p>Patrick Frederick M'Farlan, Scotland</p> <p><i>George M'Farland</i>, New Zealand</p> <p>80 Alistair Forbes Mackay, Scotland</p> <p>Francis Dillon Scobie Mackenzie, New Zealand</p> <p>John M'Kenzie, Scotland</p> <p>William M'Lachlan, Scotland</p> <p>William Mair (M.A., B.Sc.), Scotland</p> <p>85 George William Peake Maitland, India</p> <p>Alexander Mowatt Malcolmson, Scotland</p> <p>Edward Charles Cecil Maunsell, Ireland</p> <p><i>George Robertson Mill</i>, Scotland</p> <p>Thomas Mill, New Zealand</p> <p>90 William Miller, Scotland</p> <p>Joseph Miskelly, Ireland</p> <p>Alexander Mouat, Scotland</p> <p>David Munro (M.A.), England</p> <p>George Stewart Murray, Scotland</p> <p>95 PETER MURRAY (M.A.), Scotland</p> <p>William Murray, Scotland</p> <p>Elvin Gladstone Osborne Nixon, Jamaica</p> <p>David Alexander Ogilvie, Scotland</p> <p>John Fraser Orr, Scotland</p> <p>100 John Louis Palmer, Ireland</p> <p>William Paterson, Scotland</p> <p>Walter Scott Patton, India</p> <p>John George Peebles, Scot.</p> <p>Sidney George Peill, England</p> <p>105 George Pereira, Trinidad</p> <p>Howard George Pesel, England</p> <p>Laurence William Pole, Scot.</p> <p>Edmund Thurlow Potts, England</p> |
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| <p><i>William Hogg Prentice</i><br/>(M.A.), Scotland</p> <p>110 Lloyd Turton Price, England</p> <p>Henry St John Randell, South Africa</p> <p>Francis Lindsay Rigby, England</p> <p>Hugh Moreton Roberts, Wales</p> <p><i>George Cook Irvine Robertson</i>, (M.A.), Scotland</p> <p>115 John Keith Alexander Robertson, Scotland</p> <p>Michael William Robertson, Scotland</p> <p>William Arthur Robinson (B.A., B.Sc.), New Zealand</p> <p>Andrew Lindsay Roxburgh, Scotland</p> <p>Laurence Rundall, England</p> <p>120 CALEB WILLIAMS SALEEBY, England</p> <p><i>Thomas Brown Shaw</i>, Ireland</p> <p>Margaret Merry Smith, Scot.</p> <p>Thomas Aubrey Smyth, Ireland</p> <p>Kate Southon, India</p> <p>125 Henry Langlands Spark, Scotland</p> <p>William Clark Speirs, England</p> <p>Basil Alexander Spence, Scotland</p> <p>Arthur Julian de Spiganovicz, Russia</p> | <p>Charles Stanley Steavenson, England</p> <p>130 Maud Muriel Stevenson, Ireland</p> <p>Donald Alexander Stewart (M.A.), Scotland</p> <p>Ian Struthers Stewart, Scotland</p> <p>John Sullivan, Scotland</p> <p>Matthew Arnold Swan, Scotland</p> <p>135 Paul Telles, Trinidad</p> <p>George Lewis Thompson, Mauritius</p> <p>Thomas Lauder Thomson, England</p> <p>John Burnett Thorburn, Scotland</p> <p>William Leigh Trafford, England (<i>in absentia</i>)</p> <p>140 Edward James Tyrrell, Scotland</p> <p>Ernest Alexander Walker, Scotland</p> <p>Abraham Ransome Wallis, England</p> <p>Edwin Wells, Grenada</p> <p>THOMAS SAMUEL BEAUCHAMP WILLIAMS, Wales</p> <p>145 Frederic Ernest Wilson, Scotland</p> <p>James Woods, Ireland</p> <p>David Young, Scotland</p> |
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## 19TH OCTOBER 1901.

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|---|--|
| <p>Arthur John Brock, Scotland</p> <p>Alfred Brown, Scotland</p> <p>John Webster Duffus (M.A.), Scotland</p> <p>John Munro Dupont, England</p> <p>5 William Francis Lucius Austen Holcroft, England</p> <p>John Jamieson, Scotland</p> <p>Ernest Winbolt Lewis, India</p> <p>Harriet M'Cloghry, Ireland</p> <p>John Bryce M'Cutcheon, Ireland</p> | <p>10 Lionel Alexander MacMunn, England</p> <p>Kenneth Duncan Cameron Macrae, Scotland</p> <p>Antoine Felix Gaston Masson, England</p> <p>Robert Murray, Scotland</p> <p>Peterswald Pattison, Scotland</p> <p>15 George Archibald Park Ross, Scotland</p> <p>Richard Rutherford, Scotland</p> <p>George William Smith, Scot.</p> |
|---|--|



Charles William Somerville,	Noel Nathaniel Wade, Wales
Scotland	Ernest Alexander Walker,
William Casswell Spooner,	Scotland
England	25 Douglas Larmer Wall, Eng-
20 George Henry Steven, Scot.	land
George Cecil Strathairn, Scot-	Harold Edgar Wareham, Eng-
land	land
James Paget Thorne, England	Philip Weatherbe, Canada

30TH NOVEMBER.

George Holliday.

25TH JANUARY 1902.

Makhan Singh Sodhi, India | Robertson Morrison, Scotland

SPECIAL UNIVERSITY CERTIFICATE IN DISEASES OF TROPICAL CLIMATES.

27TH JULY 1901.

Shaik Dawood (M.B., C.M.)

Charles William Howe (M.B., Ch.B.)

William Miller (M.B., Ch.B.)

19TH OCTOBER 1901.

Antoine Felix Gaston Masson (M.B., Ch.B.)

## Fellowships, Scholarships, Bursaries, and Prizes in Medicine.

### I.—FELLOWSHIPS.

*See note under Scholarships, page 185.*

#### I.—THE SYME SURGICAL FELLOWSHIP.

This Fellowship, of the annual value of about £102, and tenable for two years, is open to award to the Bachelor of Medicine and Master in Surgery, or Bachelor of Medicine and Bachelor of Surgery, of not more than three years' standing, who, in the opinion of the Examiners, has passed a creditable examination for these degrees, for the best Thesis on a Surgical subject giving evidence of original research, or practical talent, whether such Thesis be given in for Graduation or

otherwise. The next award may be at the Graduation Ceremonial in July 1903. *See* Deed of Foundation, at p. 310 of CALENDAR for 1872-73. 1901. *Alfred Charles Sandstein, M.D., Ch.B.*

## II. THE GOODSIR MEMORIAL FELLOWSHIP.

This Fellowship was founded in 1872 by the subscribers to the fund for a memorial of the late Professor John Goodsir for the encouragement of the study of Anatomy and Physiology. It is of the annual value of about £100, tenable for two years, and is open to all Graduates in Medicine of the University of not more than three years' standing at the time of the competition, and to Licentiates of the Colleges of Physicians or Surgeons of Edinburgh of a like standing, who have attended within the University the same number of classes as are required for the Degrees of M.B. and Ch.B. It is awarded for the best Essay or Treatise containing results of original investigations in Anatomy, Human and Comparative, either Normal or Pathological, or in Experimental Physiology; Candidates may be examined *viva voce* or otherwise on the subject of their Essays or Treatises if the Examiners shall deem this desirable.

The next award may be made in July 1903, and competing Dissertations must be lodged with the Professor of Anatomy not later than the 30th April previously. *See* Deed of Foundation at p. 314 of CALENDAR for 1872-73.

1901. *Sutherland Simpson, M.D., Ch.B., B.Sc.*

## III.—THE LECKIE-MACTIER FELLOWSHIP.

The Leckie-Mactier Fellowship, of the annual value of £80, is awarded to Bachelors of Medicine of not more than three years' standing, and is tenable for three years. The examinations comprise written reports and commentaries on medical, surgical, and gynecological cases in the University Wards in the Royal Infirmary, and written examinations in Midwifery, Medical Jurisprudence, and Public Health; also oral examinations in Medicine, Surgery, Midwifery, Medical Jurisprudence, and Public Health. Every holder of the Fellowship must, before the expiry of his tenure, transmit to, and if required read publicly in presence of the Medical Faculty, a communication embodying the result of original observation or historical research in some department of medicine. Next appointment may be made in November 1904. *See* Deed of Foundation at p. 365 of CALENDAR for 1880-81.

1901. *W. J. Barclay, M.B., Ch.B.*

## IV. FREELAND BARBOUR FELLOWSHIP.

This Fellowship is of the value of £100, and is open to award, in each alternate year, to the Bachelor of Medicine and Bachelor

of Surgery who has gained the highest collective marks in Anatomy, Physiology, and Pathology in the Professional Examinations, and who is prepared to devote not less than one year to original research in Midwifery or diseases of women, in any of the Laboratories or Practical Departments of the University of Edinburgh. The next award may be made in July 1904. *See* Deed of Foundation at page 517 of CALENDAR for 1899-90.

1902.

#### V. ALLAN FELLOWSHIP IN CLINICAL MEDICINE AND CLINICAL SURGERY.

This Fellowship, of about £40, is awarded annually, after competitive examination of the six candidates for the degrees of M.B., C.M., or M.B., Ch.B., who, after having attended in the University of Edinburgh the necessary qualifying courses in Clinical Medicine and Clinical Surgery, shall obtain the highest percentage of marks in these subjects at the final examination for these degrees. *See* Deed of Endowment and Regulations, page 833 of CALENDAR for 1899-1900.

1901. *Thomas Brown Shaw, M.B., Ch.B.*

#### II.—FUNDS FOR RESEARCH, &c.

##### I. THE WILLIAM DICKSON TRAVELLING FUND.

This is a fund for the purpose of assisting Graduates of any Faculty, of not more than three years' standing, to travel for the purpose of study or research. For particulars, see page 199.

##### II. THE EARL OF MORAY'S BEQUEST FOR THE PROMOTION OF ORIGINAL RESEARCH.

All Graduates and other Members of the University, "or other persons who have given satisfactory proof of General Education and fitness to engage in some special study or research," may apply for grants from this fund. In so far as the subject of the Research admits, the investigation shall be conducted in the Buildings of the University. For further particulars, see page 200. *See* Regulations, page 428 of CALENDAR for 1897-98.

##### THE SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is in the patronage of the Trustees of the British Museum, is of the annual value of £144, and is open to Graduates in any of the Faculties of this University who have obtained their Degrees after Examination. For further particulars, see page 297.

#### III.—SCHOLARSHIPS.

##### I.—ETTLES SCHOLARSHIP IN MEDICINE.

This Scholarship was founded in 1868 by Miss Mary Ettles of Inverness, and is of the annual value of about £31, 5s. It is awarded

annually to the Bachelor of Medicine and Master in Surgery of the University of Edinburgh, whom the Faculty of Medicine may consider the most distinguished of that year. See Deed of Foundation, at page 242 of CALENDAR for 1868-69.

1901. *Caleb Williams Saleeby, M.B., Ch.B.*

## II.—SIBBALD MEDICAL SCHOLARSHIP.

This Scholarship is of the annual value of £40. *First*, The Scholarship is bestowed on, and held by, a Student in the Faculty of Medicine in the University of Edinburgh, *who does not hold any other Scholarship or Bursary*, and is tenable for three years, during each year the Scholar must complete an *Annus Medicus* required from Candidates for the degree of Bachelor of Medicine. *Second*, It is bestowed upon the Student obtaining the highest place by Competitive Examination, and is open to all Candidates who have not previously been Students of Medicine in any other School or University, and who have attended Medical Classes in the University of Edinburgh, for *not less* than one Winter and one Summer Session, and for *not more* than one Winter and two Summer Sessions. The Competitive Examination is in Chemistry, Botany, Natural History, and Physics, and is conducted in such manner as the Senatus Academicus may, in concurrence with the Trustees, prescribe. The next competition may take place in October 1903. Application to be made to MESSRS MACKENZIE, INNES & LOGAN, W.S., 23 Queen Street, Edinburgh.

1900. *Ephraim Henderson, M.A.*

## III.—THOMSON SCHOLARSHIP.

The Thomson Scholarship, value £40, tenable for four years, open to matriculated students commencing their first Winter Session in Medicine. The examination is on Botany, Zoology, and Elementary Mechanics. The Scholarship is awarded to the candidate who shall obtain the highest number of marks in the examination. The Trustees, however, reserve power to themselves to withhold the appointment should none of the candidates obtain a sufficiently high percentage of the marks in the examination. Candidates must send in their names to the agents for the Trust before the first day of October in the year in which there is a competition for the Scholarship. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. The next appointment may be made in October 1902. For further particulars, application to be made to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh.

1898. *Thomas Nicol.*

## IV.—COLDSTREAM MEMORIAL MEDICAL MISSIONARY SCHOLARSHIP.

The Coldstream Memorial Medical Missionary Scholarship, consisting of the annual interest on £400, was founded in memory of the deceased John Coldstream, M.D., F.R.C.P.E. Value about £20, and tenable for five years. The holder must be a first year's Medical Student, who intends to devote himself to the life of a Medical Missionary at home or abroad. He must be approved of by the awarders, and pass the Preliminary Examination before beginning his studies. A preference is given to students connected with the Edinburgh Medical Missionary Society. A full copy of the conditions can be had on applying to John P. Coldstream, W.S., care of Messrs Mill, Bonar & Hunter, W.S., 15 Hill Street, Edinburgh. Next award may be in October 1905. See Conditions in CALENDAR for 1879-80, p. 357.

1900. *Alexander Macrae.*

## V.-XI.—VANS DUNLOP SCHOLARSHIPS.

*Seven Scholarships*, of £100 each, tenable for three years. Not more than one at a time can be held by the same person. The successful candidates for each of these Scholarships will be required to continue their medical studies in this University during their tenure of their Scholarships, and to graduate as M.B. and Ch.B. See Excerpt from Will of Dr Vans Dunlop, p. 380 of CALENDAR for 1880-81.

V. *One* is awarded to the Candidate who, at either the March or the preceding October Medical Preliminary Examination, has obtained the highest number of marks in the Subjects required to enable him to appear for a Professional Examination, provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. The next award will be made in March 1904.

1901. *James Jackson* and *Thomas B. Johnston*—equal.

VI. *One* is awarded at the end of the First Winter of Medical Study to the Student who, after having attended for the first time within the University a Systematic Course of Lectures on each of the subjects of Chemistry, Anatomy, and Physics, and who has not previously attended any course in Chemistry, or Anatomy, or Physics, which qualifies for Degrees in Medicine, or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects, specially conducted for the purpose. The Subjects of Examination in Anatomy will include the Skeleton; Joints; Muscular System; Heart and Great Vessels; General Arrangement of the Nervous System; Position of the Thoracic and Abdominal Viscera. The next award may be made at the end of March 1905.

1902. *Alexander Murray Drennan.*

VII. *One* is awarded at the end of the first Summer Session of Medical Study to the Student who, after having attended for the first time within this University a Systematic Course of Lectures on each of the subjects of Botany and Zoology, and who has not previously attended any course in Botany or Zoology which qualifies for Degrees in Medicine, or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The next award may be made at the end of July 1905.

1902.

VIII. *One* is awarded at the end of the Second Winter of Medical Study to the Student who, after having attended within the University for the first time a Systematic Course in each of the subjects of Physiology and Surgery, and who has not previously attended a Course of Physiology or Surgery which qualifies for Degrees in Medicine, or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The Subjects of the Examination in Physiology will embrace the Histology and Physiology of the Simple Tissues, and of the Organs concerned in Nutrition. The whole subject of Nutrition will be included, and also Animal Heat. The next award may be made at the end of March 1905.

1902. *Peter M' Ewan, M.A.*

IX. *One* at the beginning of the Fourth Winter Session of Medical Study to the Student who, after having attended within the University the Systematic and Practical Instruction in the subjects of Anatomy and Physiology, and, having passed the Second Professional Examination, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful Candidate will be required to continue his studies in this University during the first two years of his tenure of the Scholarship, and at the end of the second year to graduate as M.B. and Ch.B. ; and during the remaining year to prosecute original investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in October 1905.

1902.

X. *One* at the beginning of the Fourth Winter Session of Medical Study to the Student who, after having attended within the University a Systematic Course in the Subject of *Materia Medica* (including Pharmacology), and, having passed the Second Professional Examination, shall obtain the highest number of marks in an Examination in that subject specially conducted for the purpose. The successful Candidate will be required to continue his studies in this University during at least two years of his tenure of the Scholarship, and at the end of the second year to graduate as M.B. and Ch.B. ; and during the remainder of his tenure of



the Scholarship to devote himself to original investigation in the *Materia Medica* Laboratory in the Faculty of Medicine. The next award may be made in January 1903.

1900. *William H. Prentice, M.A.*

XI. *One* to be awarded at the beginning of the Fifth Winter Session of Medical Study, to the Student who, after having attended within the University, the Systematic and Practical Courses in Pathology and the Systematic Courses in Medical Jurisprudence, and in Public Health, and having passed the Third Professional Examination, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful Candidate will be required to continue his studies and graduate as M.B. and Ch.B. in this University, during the first year of his tenure of the Scholarship, and to devote himself during the remainder of his tenure to original investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in October 1902.

1899. *R. A. Ross.*

## XII.—THE MURCHISON MEMORIAL SCHOLARSHIP.

This Scholarship consists of the annual proceeds of about £1000, awarded in alternate years in London and Edinburgh, for proficiency in Clinical Medicine. Candidates must be registered medical students who have attended for not less than five nor more than seven years at Hospitals and Classes at Edinburgh or London, recognised by the University of Edinburgh or the Royal College of Physicians of London. The competition in 1903 will be held in Edinburgh.

1901. *Robert Veitch Clark, M.A., B.Sc., M.B., Ch.B.*

## XIII.—STARK SCHOLARSHIP IN CLINICAL MEDICINE.

This Scholarship, of £112, less expenses, and tenable for one year, is for the encouragement of the study of Clinical Medicine. It is open to competition among all matriculated students of the University who are or have been in attendance at the University Class of Clinical Medicine, and to Bachelors of Medicine of the University of not more than eighteen months' standing who have attended this class. It is open every second year alternately with the competition in Edinburgh for the Murchison Memorial Scholarship. The Examination, oral and in writing, includes (*a*) Examination of Patients; (*b*) Questions on Therapeutics and Pathology; (*c*) Examination of Specimens. Each holder of the Scholarship is required to devote his time in the wards of the Professors of Clinical Medicine to original investigation or other work directly connected with Clinical Medicine; to report his proceedings every three months to the Professors of Clinical Medicine; and, within a reasonable time after the expiry of his tenure of the Scholarship, to present to the Faculty of Medicine a written statement of the

results of his investigations or other work. It cannot be held along with any other Fellowship, Scholarship, or Bursary in a Scottish University. The next Competition will take place in July 1904. *See* Deed of Foundation at p. 427 of CALENDAR for 1884-85.

1901. *William Elliot Carnegie Dickson, B.Sc., M.B., Ch.B.*

#### XIV.—BUCHANAN SCHOLARSHIP.

This Scholarship, of the value of about £40, founded by Mrs Jane Jack or Buchanan, Moray Place, Edinburgh, is awarded annually to the Graduate in Medicine of the year who has shown the highest proficiency in Midwifery and Gynecology, as evidenced in (1) the Class Examinations of Midwifery and Diseases of Women and Children; (2) the Records kept by him of cases treated in the Gynecological Section of the University Class of Clinical Medicine in the Buchanan Ward of the Royal Infirmary, and (3) the Final Examination in Medicine for the Degree of M.B. The Scholar is required to act as non-resident Clinical Clerk in the University Gynecological Ward, and to give assistance in the Examination of Class Exercises. *See* Deed of Foundation, p. 707 of CALENDAR for 1894-95.

1901. *William Hogg Prentice, M.A., M.B., Ch.B.*

#### XV.—THE JAMES SCOTT SCHOLARSHIP.

This Scholarship, founded by Mrs Mary Ann Scott or Thomson of Hawick, of the value of £32, 10s., is awarded annually at the Graduation Ceremonial in Medicine in August for proficiency in Midwifery. The award is based upon the results of the Competitive Examinations in the Class of Midwifery, upon the character of the records of Cases of Midwifery attended by the Candidate at the Royal Maternity and Simpson Memorial Hospital, and upon the position obtained by him at the Final Examination for Degrees in Medicine. The Scholarship is for one year, but may, in special circumstances, be continued for another year. *See* Deed of Foundation, p. 416 of CALENDAR for 1883-84.

1901. *Caleb Williams Saleeby, M.B., Ch.B.*

#### XVI., XVII.—HOPE PRIZE SCHOLARSHIPS.

Two Hope Prize Scholarships in Chemistry, each of the annual value of about £30. For particulars, *see* under Scholarships in Science.

#### XVIII.—THE MOUAT SCHOLARSHIP IN THE PRACTICE OF PHYSIC.

This Scholarship, of the value of about £55, 4s. (partly in money and partly in the form of a bronze medallion), is awarded annually at the Graduation Ceremonial in Medicine, to the graduate in Medicine

who shall have taken the highest place in the competitive Examinations in the Class of Practice of Physic (Medicine) in this University, and in the Oral and Written Examinations in that subject in the Final Examination.

The Scholar shall be bound during his year of tenure to pursue the study of Medicine either as resident in an Infirmary or Hospital, or in the University of Edinburgh, or other University or Medical School at home or abroad, and to present, at the close of such year, to the Professor of Practice of Physic, or to the Senatus Academicus, a Report of the work he has done in such Infirmary, Hospital, University, or Medical School. The money part of the Scholarship will only be paid on the Senatus receiving a certificate from the Dean of the Faculty that the conditions of the Scholarship have been duly fulfilled.

1901. *James Brownlee, M.B., Ch.B.*

#### XIX.—MACKAY SMITH SCHOLARSHIP IN CHEMISTRY.

This Scholarship is of the annual value of £25, tenable for two years, and is open for competition to Students who have attended the Class of Chemistry in this University. The successful Candidate is bound to attend the Class of Chemistry, or to prosecute the study of Chemistry in the University during at least one year of his tenure of the Scholarship, in such way as the Senatus Academicus may direct or approve. The next Examination will take place in July 1904.

1902.

#### XX.-XXIII.—CRICHTON SCHOLARSHIPS FOR RESEARCH.

Four Scholarships, each of the value of £100, tenable for one year, with power of re-appointment for a second and for a third year, are open in rotation in the subjects of Anatomy, Physiology, Materia Medica, and Pathology, for the prosecution of Research by Graduates who have been Students of this University for not less than four years. The Scholarships in Materia Medica and Pathology will be open in 1902. Candidates are required to submit a sufficient description of the work they propose to undertake to the Dean of the Faculty of Medicine on or before 1st September. The Examination is both written and practical, bearing on Research Work. See Regulations, page 750 of CALENDAR for 1895-96.

1901. *David Waterston, M.B., C.M. (Anatomy)*, for a third year.

1901. *J. A. Milroy, M.D. (Physiology)*.

#### XXIV.—HOULDSWORTH SCHOLARSHIP.

This Scholarship, founded by the Houldsworth Trustees for the purpose or promoting Research in Pharmacology in the Department of Materia Medica in the University, is of the annual value of about £46,

and tenable for one year, with power to re-elect for a second, or even a third year if good work is being done by the scholar. It is awarded to a Graduate in, or Student of Medicine of the University, after such examination, competitive or otherwise, as may be deemed necessary. The scholar must, during his tenure, produce such evidence of his progress in Pharmacological investigation as may be required by the Professor of Materia Medica. For Deed of Foundation, see page 421 of CALENDAR for 1897-98.

1901. No award.

### III.—BURSARIES.

*See note under Bursaries, page 169.*

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1864	Dr Abercromby, Cape Town.	£20 0 0	1	4	£20 0 0	Governors of George Heriot's Trust.
II.	1871	Dr J. R. Sibbald's Trustees.	{ About 150 0 0 }	5	3	30 0 0	Trustees of Dr J. R. Sibbald.
III.	1873	Dr Mackie's Trustees.	60 0 0	2	2	30 0 0	Professors of Fac. of Med. in Univ. Edin.
IV.	1873	Mr Grierson of Ogc-castle's Trustees.	{ 60 0 0 } { 20 0 0 }	3 1	1 1	{ 20 0 0 } { 10 0 0 } { 10 0 0 }	{ Senat
V.	1878	Dr Andrew Thomson	200 0 0	8	4	25 0 0	Trus. of Dr Thomson.
VI.	1878	William Mackenzie	32 10 0	4	1	8 2 6	Senatus.
VII.	1878	John Aitken Carlyle	56 0 0	2	1	28 0 0	Senatus.
VIII.	1882	Mrs Ronald of Liver-pool	80 0 0	2	...	40 0 0	Senatus.
IX.	16—	George Heriot. Re-modelled 1887	480 0 0	6	4	30 0 0	Governors of George Heriot's Trust.
X.	1890	Major Robert Orr Crichton of Lynn, M.D.	500 0 0	10	4	50 0 0	Senatus Academicus.
XI.	1809	Dr Donald Grant, London.	180 0 0	2	4	90 0 0	Dr Grant's Trustees.
XII.	1846	John Jamieson, Edinburgh.	26 0 0	1	4	26 0 0	Principal and Two Professors.
XIII.	1883	Wm. Renton, Edinburgh.	20 0 0	1	1	20 0 0	Professors of Mathematics, Natural Philosophy, Chemistry, and Political Economy.
XIV.	1886	Richard Allan, Feuar, Kelso.	90 0 0	3	3	About 30 0 0	Trustees of R. Allan.
XV.	1889	Daniel Maclaurin, London.	62 10 0	1	4	62 10 0	Town Council.
XVI.	1897	M'Cosh (Graduates).	...	1	1	153 0 0	Senatus.
XVII.	1897	M'Cosh (Medical).	...	1	1	11 11 4	Senatus

I. *Abercromby Bursary*—Open by competition, in the event of more than one candidate coming forward, to Students who have been educated in George

Heriot's School, and have finished their course as Heriot Bursars, to aid them in further prosecution of their studies for any of the learned professions. Students in the Faculty of Medicine to be always preferred. Candidates are referred to the Treasurer of the Heriot Trust, 20 York Place, Edinburgh, before 15th September.

II. *Sibbald Bursaries*.—These Bursaries, each tenable for three years, are available to Students in the Faculties of Arts, Medicine, Law, or Divinity, entering the University who have not previously attended any University in the United Kingdom or elsewhere, and who do not hold any other Bursary or Scholarship, but no objection to a Candidate that he has, during the previous Summer Session, attended any of the Classes in the University of Edinburgh required by the Faculties of Medicine or Law. The examination is the same as the Preliminary and Bursary Examination in the Faculty of Arts at the commencement of each Winter Session. Application to be made to Messrs Mackenzie, Innes & Logan, W.S., 23 Queen Street, Edinburgh, before 15th September.

III. *Mackie Bursaries*.—These Bursaries are awarded to Students of Medicine of the University, one of which is open to Students who have completed their first *annus medicus*, and the other to Students who have completed their second *annus medicus*, and who are, in the opinion of the Faculty of Medicine, in such pecuniary circumstances as to require assistance. In the event of no appointment having been made to either Bursary on any occasion when it is vacant, the Senatus may, on the recommendation of the Faculty of Medicine, appoint any Candidate to the vacant Bursary who has completed either his first or his second *annus medicus* and who otherwise satisfies the requirements of tenure. *Bursars*—1901, first year, R. S. Enever Todd; second year, Philip A. Harry.

IV. *Grierson Bursaries*.—Candidates from the parishes of Crawford or Leadhills, about to commence their Medical Curriculum, who have passed in the University of Edinburgh a satisfactory examination in the preliminary subjects required by the Regulations for Graduation in Medicine, who have been diligent students, and who require pecuniary aid to enable them to pursue their studies, have a preference. In the case of more candidates than one, the Bursary will be awarded to the best qualified, on examination in the subjects above referred to.

Failing the appointment of preferential candidates, the Bursaries will be tenable for periods of one year only, in manner following, viz. :—*One* will be awarded to the student who, not having completed his twenty-first year, shall pass the best examination of the year in the subjects of the preliminary examination, provided (1) that he has not already passed the said preliminary examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. *One* will be awarded by competitive examination to the student beginning the Second Winter Session, who having already passed the Preliminary Examination required for Graduation in Medicine, shall pass the best examination in the subjects of Chemistry, Botany, Natural History, and Physics. *One* will be awarded by competitive examination to the student beginning the Third Winter Session who, having already passed the First Pro-



fessional Examination, shall pass the best examination in the subjects of Anatomy and Physiology. *One* will be awarded by competitive examination in *Materia Medica* at the beginning of the Fourth Winter Session. *One* will be awarded by competitive examination in Pathology at the beginning of the Fifth Winter Session. *Bursars*—1901, Preliminary Subjects, no award; First Professional Subjects, ; Anatomy and Physiology, *James Craw*; *Materia Medica*, *James M. Kirkness*; Pathology, *D. R. Macgregor, B.Sc.*

V. *One Thomson Bursary* is awarded at each of the Preliminary Examinations held in Spring and Autumn, to the Candidate who, being about to commence his Curriculum, takes the highest place in the Medical Preliminary Examination: provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. Candidates must enter for the Preliminary Examination in Autumn or Spring, and those claiming a preference must intimate their names to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, the agents for the Trust (from whom further particulars may be obtained), at least one clear week before the Examinations. *Bursars*—*H. R. Macintyre*; *James Dundas*. 1900-1901, *David Mathieson*; *J. B. Alexander*. 1901-1902, *William Ashworth*.

VI. *Macenzie Bursaries*, open to Students of Anatomy Classes, of any year, who shall display the greatest industry and skill in Practical Anatomy during the Winter Session. See CALENDAR for 1879-80, p. 353. *Bursars*—1902, *A. C. McMaster*; *D. W. Sibbald*—equal; *A. S. Paterson*; *A. M'Tier Pirrie*—equal.

VII. *John Aitken Carlyle Bursaries*, one is awarded at the end of every Winter Session to a first year Student for proficiency shown in the ordinary class examinations in Anatomy and Chemistry, the other to a second year's Student for proficiency shown in the ordinary class examinations in Anatomy and Physiology. See CALENDAR for 1879-80, p. 350. *Bursars*—1902, Senior, *A. M'Tier Pirrie*. Junior, *Claude Pycroft*.

VIII. The *Anderson Bursaries* have been founded by Mrs Ronald of Liverpool, and will come into operation on the death of an annuitant. For Deed of Foundation, see CALENDAR 1882-83, p. 396.

IX. The *Heriot Bursaries* are for Students unconnected with the Hospital, entering upon a regular Curriculum with a view to graduation. For remodelled scheme, see CALENDAR, 1887-88, p. 498. For subjects of Examination, &c., see under Bursaries open in Faculty of Arts.

X. *Crichton Bursaries*.—Two of these Bursaries are open annually—one in Autumn and one in Spring—to Students entering the Faculty of Medicine of this University who have been born in Scotland. The subjects of Examination are Latin, Greek, French, German, Mathematics, Logic, and Moral Philo-



sophy. Each Bursary is of the annual value of £50, tenable for four years, provided the Bursars continue Students of the Medical Faculty of this University. See Excerpt from Deed, p. 540 of CALENDAR for 1891-92, and Regulations, p. 749 of CALENDAR for 1895-96. *Bursar*—1899—*Henry Speirs, R. Donaldson, M.A.* 1900—*John MacNab, Thomas Davidson.* 1901—*John R. Davidson, James H. Aikman.*

XI. The *Grant Mortification* is for Students of the University of Edinburgh, of the name of Grant. The holders may attend the Arts, Medical, Divinity, or Law Classes. Application for information may be made to Messrs Mackenzie, Innes & Logan, W.S., 23 Queen Street, Edinburgh.

XII. The *Jamieson Bursary* is for the benefit of the sons of schoolmasters, farmers, mechanics, and labourers, and other persons born and residing within any one of the following parishes—viz., Crawfordjohn, Crawford, united parishes of Lamington and Wandell, united parishes of Wiston and Robertson, Culter and Biggar. The Bursar may attend Classes in any of the Faculties.

XIII. The *Renton Bursary*, founded by the late William Renton. Candidates must attend one or more of the classes of Natural Philosophy, Mathematics, Chemistry, or Political Economy, and must show that they require pecuniary aid. It cannot be held by any one under the age of sixteen or above twenty-one, or with another Bursary of the value of £30 or upwards. The Examination is in English and Mathematics, as for the First Year Open Bursaries in Arts.

XIV. *Allan Bursaries.*—These Bursaries are available to Students attending classes in any of the Faculties of Arts, Science, Medicine, or Law, in the University of Edinburgh, and are tenable for three years or for such part of that period as the Bursar shall remain a Student at the University. In nominating Candidates for presentation to the Bursaries, care will be given to prefer such as have been born in the parish of Kelso, provided they are qualified by their previous education for entering the University. Apply to P. Stormonth Darling, Esq., writer, Kelso.

XV. *Maclaurin Bursary.* This Bursary, tenable for four years, is by the will of the founder to be called the “Maclaurin Bursary,” and is restricted to Students of the Founder’s name of Maclaurin (or in Gaelic orthography “Maclalhrin”). It may be held in any of the Faculties. See Deed of Foundation, p. 544 of CALENDAR for 1890-91.

XVI., XVII. *The M’Cosh Graduate’s Bursary and M’Cosh Medical Bursary.* Each Bursary is tenable for one year, during which the holder will be required to prosecute Study or Research in a Medical School or Medical Schools of Europe, it being in the discretion of the Faculty of Medicine to award both Bursaries to the same person. Applications for the Bursaries must be made to the Dean of the Faculty of Medicine not later than the end of the third week of July, and must be accompanied with a statement of the name or names of the Medical School or schools intended to be visited, of the time proposed to be spent at each school, and of the nature of the study or special work proposed to be engaged in. Bachelors of Medicine and Bachelors of Surgery are eligible for appointment during one year after receiving these degrees. In considering the claims of candidates, the Faculty of Medicine will take into account not only their professional attainments and ability, but also the knowledge they possess of foreign languages ;

and it shall be in the option of the Faculty to satisfy themselves with regard to this knowledge by the examination of candidates. Candidates who already hold a Bursary, Scholarship, or Fellowship will not be disqualified except in cases where the Bursary, Scholarship, or Fellowship requires, as a condition of tenure, the prosecution of Original Research, or some other condition which may be interfered with by the holding of a M'Cosh Bursary. Holders of the Bursaries will be required at the end of each three months to transmit to the Dean of the Faculty of Medicine a report of the manner in which they are pursuing their studies, or of the progress being made in any special work in which they are engaged.

1901. No award.

#### IV.—PRIZES.

*See note under Bursaries, page 169.*

##### I.—NEIL ARNOTT PRIZE FOR EXPERIMENTAL PHYSICS.

This Prize, of the value of about £37, 10s., presented to the University by Dr Neil Arnott of London, is awarded annually in October to the Candidate who shall pass with the greatest distinction the Ordinary Examination in Natural Philosophy for the Degree of M.A., with such additional Examination in Experimental Physics as the Examiners may require. Candidates must have been Students of Medicine of this University during either a summer or a winter session; and the successful candidate must continue a Student of Medicine at this University during the next Winter Session, failing which, the prize will be forfeited and assigned to the competitor next in merit. No student can appear for examination after the completion of his third *annus medicus*; and no candidate shall be allowed to offer himself more than once.

In the event of a competitor, qualified as above, not coming forward, the prize will be awarded to a Candidate for a Degree in Arts who shall pass with most distinction the ordinary examination in Natural Philosophy. *See Deed of Foundation at p. 274 of CALENDAR for 1870-71.*

1901. *Ephraim Henderson, M.A.*

##### II.—THE ROBERT WILSON MEMORIAL PRIZE.

This Prize was founded by John Wilson of South Bantaskine, in memory of his son, Robert Wilson, and is of the value of £7, 16s. in money and a bronze medal. It is annually awarded at the close of the Winter Session to the student in the senior Chemistry Class who takes the highest honours. *See Deed of Foundation at p. 351 of CALENDAR for 1876-77.*

1902,

### III.—THE ELLIS PRIZE FOR PHYSIOLOGY.

This Prize consists of the proceeds of a sum of £500 bequeathed by the late Daniel Ellis, Esq., to the Principal and Faculty of Medicine of the University of Edinburgh, accumulated for three or five years. It is awarded for the best Essay or Treatise on some subject of Animal or Vegetable Physiology proposed by the Faculty for competition to Students or Graduates of not more than five years' standing.

1901. *Sutherland Simpson, M.B., Ch.B.*

### IV.—PRIZES FOR THESES.

Gold Medals, each of the value of £10, are awarded annually on the day of graduation to Doctors of Medicine whose Theses are deemed worthy of that honour.

### V.—THE WIGHTMAN PRIZE IN CLINICAL MEDICINE.

This Prize of £12 was founded by Mrs E. Wightman, in memory of her son, J. T. Wightman, M.B., C.M., and is annually awarded at the close of the Summer Session to the student attending the Class of Clinical Medicine for the best Dissertation on any subject presented by the Faculty of Medicine, or for the best Report and Commentary on cases which have during the previous Winter and Summer Sessions been treated in the University Clinical Wards in the Royal Infirmary. Three months' notice of subject is given by the Faculty of Medicine. *See Deed of Foundation at p. 348 of CALENDAR for 1876-77.*

The Prize, which is open to members of the Clinical Class of either Winter 1902-1903 or Summer 1903, will be awarded for the best report and commentary on cases. The Essays to be given in on or before the second Monday in July.

1901. No award.

### VI.—THE BEANEY PRIZE.

This Prize of £32, 10s., was founded in 1878 by James George Beane, Esq. of Melbourne. It is awarded at the Graduation Ceremonial in Medicine to the Graduate in Medicine and Surgery of the year who, having attended within the University courses on Anatomy, Surgery, and Clinical Surgery qualifying for Graduation, obtains the highest number of marks during his examinations in these subjects for the Degrees of Bachelor of Medicine and Master in Surgery. The Senatus has the power of withholding the Prize in the event of no Student passing the above examinations with sufficient merit. *See Deed of Foundation at p. 371 of CALENDAR for 1878-9.*

1901. *Harry Moss Traquair, M.B., C.M.*

### VII.—THE CAMERON PRIZE.

This Prize was founded in 1878 by the late Dr Andrew Robertson Cameron, of Richmond, New South Wales, with a sum of £2000. The

regulations were remodelled by the Educational Endowments (Scotland) Commission, and the annual proceeds, which, after defraying the necessary expenses, amount to about £80, may be awarded annually to a person who in the course of the five years immediately preceding has made any highly important and valuable addition to Practical Therapeutics. The Prize-man is required to deliver a lecture or course of lectures on the addition to Practical Therapeutics so made by him, or to publish an account of such addition in such manner as the Senatus may prescribe. The prize will not be awarded if, in the opinion of the Senatus, no addition to Practical Therapeutics has been made within the said period of five years of sufficient importance and value to justify the awarding of the prize. The prize is awarded annually at the Graduation Ceremonial in August. See Remodelled Regulations, p. 497 of CALENDAR for 1888-89.

1901. *Patrick Manson, C.M.G., M.D., for his researches on the transmission of diseases through the Mosquito.*

#### VIII.—THE DOBBIE SMITH PRIZE IN BOTANY.

This prize, which consists of a Gold Medal, is open to competition each alternate year to all Matriculated Students of the year of the award, for an Essay on a Botanical subject. The subject of the next competition is an original investigation "On the Structure, Development, and Life History of any British Flowering Plant"; and the memoir is to be accompanied with a series of illustrative specimens. Competing Essays to be sent to the Dean of the Faculty of Medicine on or before the 1st July 1903. The prize will be awarded to the successful competitor at the Graduation Ceremonial in July 1903.

1901. No award.

#### IX.-XIX.—THE GUNNING VICTORIA JUBILEE PRIZES.

Dr Gunning, of Edinburgh and Rio de Janeiro, has founded Eleven Post-Graduation Prizes of the value of £50 each, viz. :—(1) The Monro prize for Anatomy; (2) The Bell prize for Physiology; (3) The Edward Forbes prize for Zoology, &c.; (4) The Hutton Balfour prize for Botany; (5) The Joseph Black prize for Chemistry; (6) The Christison prize for Materia Medica; (7) The Lister prize for Surgery; (8) The Gregory prize for Practice of Physic; (9) The John Thomson prize for Pathology; (10) The Simpson prize for Obstetrics; (11) The Alison prize for Forensic Medicine and Public Health. Candidates must be either Bachelors of Medicine or Bachelors of Science of this University of not more than three years' standing. The prizes will be awarded with the approval of the Senatus for (1st) either (a) Competitive Essays written specially for the prizes, or (b) Theses submitted for Graduation; or (2nd) for original research conducted under supervision of the Professor in the department in which the prize is awarded. Two prizes will be awarded annually in the following rotation, viz. :—Physiology, Botany, Surgery,

Pathology, Zoology, Materia Medica, Obstetrics, Forensic Medicine and Public Health, Anatomy, Chemistry, and Practice of Physic. Competitive Essays are required to be lodged with the Dean of the Faculty of Medicine on or before 30th April of the year in which each prize is to be awarded, and the successful competitors will be announced annually at the Graduation Ceremonial in Medicine.

1901. *Duncan Forbes, M.D., Ch.B. (Anatomy).*

*Charles James Lewis, D.Sc., M.D., C.M. (Forensic Medicine and Public Health).*

## XX.—ANDERSON HENRY PRIZE.

The Prize was founded by Isaac Anderson Henry of Woodend, and consists of the proceeds of a sum of £300 accumulated for three years. It is awarded for the best and approved essay on a botanical subject proposed by the Professor of Botany, the Curator of the Royal Botanic Garden, and the President of the Botanical Society of Edinburgh, for competition to students in the Class of Botany in the University of Edinburgh, during any of the three years preceding the date of the award. The next award may be made in August 1903. Competing Essays to be sent to the Dean of the Faculty of Medicine on or before 1st July 1903.

1900. *Cameron Robertson Gibson.*

## XXI.—MILNER FOTHERGILL MEDAL IN THERAPEUTICS.

This Medal, of the value of about £20, is awarded biennially. It is open for competition to Graduates in Medicine of the University, who have been members of the Class of Materia Medica in the University, for the best essay which shall include a description of original research made by the Candidate on a Pharmacological or Therapeutic subject, preference being given to a subject relating to Dietetics. *See Deed of Foundation, p. 542 of CALENDAR for 1891-92.* The next award may be made at the Graduation Ceremonial in August 1903. Essays to be lodged with the Professor of Materia Medica on or before 30th April 1903.

1901. *Ernest Francis Bashford, M.B., Ch.B.*

## XXII.—PATTISON PRIZE IN CLINICAL SURGERY.

This Prize, of about £10, 10s., is awarded annually to the Student of the University Class of Clinical Surgery who shall write the best Report and Commentary on cases treated in the University Surgical Wards during the Academic Year. The Essays to be given in on or before the second Monday in July.

1901. *John Gaffley.*

### XXIII.—GILFILLAN MEMORIAL PRIZE.

The capital of this prize was subscribed by women students, £200, and Mr Samuel Gilfillan, £132, in memory of the late Miss Dorothy Gilfillan, M.B., Ch.B. It is of the value of about £11, and is awarded annually at the Graduation Ceremonial in August to the most distinguished woman student at the Final Examination for Degrees in Medicine.

1901. *Agnes Moore Hamilton, M.B., Ch.B.*

### FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, AND PRIZES OPEN TO COMPETITION IN THE FACULTY OF MEDICINE IN 1902-1903.<sup>1</sup>

For further information, and for information regarding other Scholarships, Fellowships, Bursaries, and Prizes, see above, where full information regarding the conditions of tenure and the values are given.

#### I. FELLOWSHIPS.<sup>1</sup>

1. *The Syme Surgical Fellowship*, No. I., page 429. The next award may be made at the Graduation Ceremonial in July 1903. Theses to be lodged *on or before* 30th April.

2. *The Goodsir Memorial Fellowship*, No. II., page 430.

The next award may be made in July 1903 and competing essays or treatises must be lodged with the Professor of Anatomy not later than the 30th April previously.

3. *The Allan Fellowship in Clinical Medicine and Clinical Surgery*, No. V., page 431.

#### II. FUNDS FOR RESEARCH, &c.

1. *The William Dickson Travelling Fund*, No. I., page 431.

2. *Earl of Moray Fund for the Promotion of Original Research*, No. II., page 431.

#### III. SCHOLARSHIPS.<sup>1</sup>

1-3. *Vans Dunlop Scholarships*, of £100 each, tenable for three years. Not more than one at a time can be held by the same person. The successful candidates for each of these Scholarships will be required to continue their medical studies in this University during their tenure of their Scholarships, except as aftermentioned, and to graduate as M.B. and Ch.B.

(1) *Vans Dunlop Scholarship in Anatomy and Physiology*, No. IX., page 434. The next competition will take place in October 1902. Names of Candidates to be sent in to the Dean of the Faculty of Medicine on or before 1st October.

<sup>1</sup> *N.B.*—The values of the Fellowships, Scholarships, Bursaries, and Prizes are subject to variation consequent on the rise or fall of the rate of interest, &c. No Candidate will be allowed to hold the same Fellowship, Scholarship, Bursary, or Prize more than once.



(2) *Vans Dunlop Scholarship in Materia Medica (including Pharmacology)*, No. X., page 434. The next competition may take place in January 1903. Names to be sent in to the Dean of the Faculty of Medicine on or before 15th December 1902.

(3) *Vans Dunlop Scholarship in Pathology, Medical Jurisprudence, and Public Health*, No. XI., page 435. The next competition will take place in October 1902. Names of Candidates to be sent to the Dean of the Faculty of Medicine on or before 1st October.

4. *The Mouat Scholarship in Practice of Physic*, No. XVIII., page 436.

5. *The Thomson Scholarship*, No. III., page 432. The next competition will take place in October 1902, on a day to be afterwards announced. For further particulars, apply to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, the Agents for the Trustees, before 20th September.

6. *The Murchison Memorial Scholarship*, No. XII., page 435. The competition is open to Candidates from London and Edinburgh, and in 1903 will take place in Edinburgh.

7. *The Buchanan Scholarship*, No. XIV., page 436.

8. *The James Scott Scholarship*, No. XV., page 436.

9. *The Ettles Scholarship*, No. I., page 431.

10, 11. *Two Hope Prize Scholarships*, Nos. XVI., XVII., page 436.

12, 13. *Two Crichton Scholarships for Research*, Nos. XX., XXIII., page 437, one in *Materia Medica* and one in *Pathology*. Candidates are required to intimate their names to the Dean of the Faculty of Medicine on or before 1st September.

14. *The Houldsworth Scholarship*, No. XXIV., page 437. The next competition may take place in January 1903, the date to be afterwards announced. Candidates to give in their names to the Dean of the Faculty of Medicine on or before 26th December 1902.

#### IV. BURSARIES.<sup>1</sup>

*Town Council Bursaries.*—Candidates for Bursaries in the gift of the Town Council, a number of which are vacant (and some of which may be held in the Faculty of Medicine), are referred to the "*City Clerk, Council Chambers, Edinburgh*," to whom early application should be made.

1, 2. *Two Sibbald Bursaries*, No. II., page 439. For particulars, apply to Messrs Mackenzie, Innes & Logan, W.S., 23 Queen Street, Edinburgh, before 15th September.

3, 4. *Two Thomson Bursaries*, No. V., page 440. Candidates claiming a preference must send their names to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, one clear week before the Examination.

<sup>1</sup> See footnote, page 446.

5-9. *Five Grierson Bursaries*, No. IV., page 439. Competitions for the Bursary in Preliminary Subjects will take place at the Preliminary Examinations in September 1902 and March 1903. The competition for the Second, Third, Fourth, and Fifth year Bursaries will take place on Tuesday, 7th, Wednesday, 8th, and Thursday, 9th October 1902, at hours to be afterwards announced. Names of Candidates to be entered on or before 1st October.

10, 11. *Two John Aitken Carlyle Bursaries*, No. VII., page 440.

12-15. *Four Mackenzie Bursaries*, No. VI., page 440.

16. *Renton Bursary*, No. XIII., page 441. Names of Candidates to be entered at the Secretary's Office, on or before 18th September.

17, 18. *Two Crichton Bursaries*, No. X., page 440.

19. *The M'Cosh Graduates' Bursary*, and *M'Cosh Medical Bursary*, Nos. XVI. and XVII., page 441.

20, 21. *Two Mackie Bursaries*, No. III., page 439. The next award may be made at the commencement of the Winter Session 1902-3. Applications to be made to the Dean of the Faculty of Medicine on or before the 1st October 1902.

22-25. *The Buchanan Society* gives *Four Bursaries*. See under Bursaries in Faculty of Arts open in October 1902.

*Competitors for the above Fellowships, Scholarships, and Bursaries, excepting those awarded for the subjects of Preliminary Examination, must have studied the subjects of Examination at the University of Edinburgh. No Fellowship, Scholarship, or Bursary, with the exception of the Freeland Barbour Fellowship, and Ettles and Murchison Scholarships, can be held along with any other Fellowship, Scholarship, or Bursary.*

## V. PRIZES.<sup>1</sup>

*The Medical Faculty Medals.*—Gold Medals are given on the day of Graduation to Doctors of Medicine whose Theses are deemed worthy of that honour.

1. *The Neil Arnott Prize*, No. I., page 442.

2. *The Beaney Prize*, No. VI., page 443.

3. *The Cameron Prize*, No. VII., page 443.

4, 5. *Two Gunning Victoria Jubilee Prizes*, one in Physiology and one in Botany, Nos. IX.-XIX, page 444. Essays, Theses, or descriptions of researches are required to be lodged with the Dean of the Faculty of Medicine on or before 30th April 1903.

6. *The Wightman Prize*, No. V., page 443. The Essays to be lodged with the Dean of the Faculty of Medicine on or before the second Monday in July.

7. *The Pattison Prize*, No. XXII., page 445. The Essays to be lodged with the Dean of the Faculty of Medicine on or before the second Monday in July.

<sup>1</sup> See footnote, page 446.

8. *The Robert Wilson Memorial Prize*, No. II., page 442.
9. *The Dorothy Gilfillan Memorial Prize*, No. XXIII., page 446, of about £11, 7s. 6d., is awarded annually at the Graduation Ceremony to the most distinguished woman Student of the year in the Final Examination for the Degrees of M.B., Ch.B.
10. *The Lord Rector's Prize*, No. 1, page 203.
- 11, 12, 13. *Gray's Prize Essay Fund*, Nos. 7, 8, 9, page 203.
14. *Anderson Henry Prize in Botany*, No. XX., page 445.

### LECTURESHIP.

*The Swiney Lectureship on Geology*, value £144 per annum, tenable for five years, is open to Graduates of the University of Edinburgh. It is in the patronage of the Trustees of the British Museum.

All holders of Fellowships, Scholarships, and Bursaries in the Faculty of Medicine must annually attend at least two of the Classes necessary for the Degrees of M.B. and Ch.B., and must present themselves for the several Examinations necessary for these Degrees at the proper periods in the Curriculum.

Holders of Fellowships, Scholarships, or other pecuniary awards implying original Research on the part of the holder, are not allowed to assume any other office, but must devote their whole time to the Research authorised by the Senatus.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, attesting his regular attendance on the proper Classes, &c., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Medicine*, after 14th November; also at the end of the Session. In applying to the Dean for the Certificate, Bursars must present their Class Cards for the Session, and also all Class Certificates and Honours Certificates obtained since the last payment. Payments are made by the University Factor, Mr Henry Cook, W.S., 61 North Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 19th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—*Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Dean and to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.*

A. R. SIMPSON, M.D.,  
*Dean of the Faculty of Medicine and Professor  
of Midwifery.*

## Faculty of Music.

Dean—Professor NIECKS, Mus. D.

—o—

STUDENTS who do not intend to graduate in Music may, without matriculating or passing any Preliminary Examination, attend any of the Classes on payment of the Five Shillings University Entrance-Fee, besides the Class Fees.

Those desiring to graduate must pass the Preliminary Examination, and must Matriculate before enrolling in any Class if they wish the Lectures to qualify for Graduation.

The Classes, open both to men and women students, will meet as undernoted. They will meet for the last time before the Christmas Vacation on Friday, 19th December 1902; will re-assemble on Tuesday, 6th January 1903, and will be closed on Thursday, 17th March 1903. The Graduation Ceremonial in Arts, &c., will be held on Saturday, 11th April 1903.

## Programme of Classes.

WINTER SESSION, 1902-1903.

PROFESSOR NIECKS.

Lectures, Theoretical and Practical Instruction, and Concerts, in the Winter Session of 1902-1903 :—

### 1. HISTORY OF MUSIC.

History of Music, from the beginning of the Christian Era to the present day, especially of the 15th, 16th and 17th centuries.

Once a week (Thursdays, 3-4), beginning 16th October. Twenty Lectures. Fee, One Guinea.

### 2. MUSICAL ANALYSIS.

Mozart as a composer of operas and instrumental music, and a comparison of his with recent works. Analysis, characterisation, and illustration.

Once a week (Mondays, 3-4), beginning 13th October. Twenty Lectures. Fee, One Guinea.

### 3. HARMONY.

Twice a week (Tuesdays and Fridays, 3-4), beginning 14th October. Fee, Two Guineas.

4. ADVANCED HARMONY.

Twice a week (Tuesdays and Fridays, 4-5), beginning 14th October. Fee, Two Guineas.

5. COUNTERPOINT AND COMPOSITION.

Once a week (Mondays, 4-5), beginning 13th October. Fee, Two Guineas.

6. SERIES OF HISTORICAL CONCERTS.

Fee for these Concerts, Half-a-Guinea. Those attending any of the Music Classes are admitted free.

EXAMINERS FOR DEGREES.

Professor Niecks, Sir Alexander C. Mackenzie, and the Examiners in English, French, Italian, and German for M.A. Degree.

MUSIC CLASS-ROOM LIBRARY.

The Reading Room of this Library is open for the consultation and study of musical works and books on music to those attending the Music Classes, daily, except Saturday, from 2 to 5 o'clock.

MUSEUM.

The Museum of Musical and Acoustic Instruments is open to Music Students.

MATRICULATION FEE, &c., page 27.

UNIVERSITY ENTRANCE FEE FOR NON-MATRICULATED STUDENTS, page 29.

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## Regulations for Graduation in Music.

I. Two degrees in Music are conferred by this University, viz., Bachelor of Music (Mus. B.), and Doctor of Music (Mus. D.).

I. PRELIMINARY EXAMINATION.

II. 1. Every Candidate for the degree of Mus. B. must pass a preliminary examination in :—(1) English, including Geography and British History ; (2) Elementary Mathematics or Elementary Physics or Logic ; (3) any two of Latin, Greek, French, German, and Italian, but one at least must be a modern language.

2. The extent and standard of the preliminary examination is determined by the Senatus.

3. A degree in Arts not being a degree *honoris causâ tantum*, in any University of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University

Court, after consultation with the Senatus, exempts from the preliminary examination; and the Senatus has power to determine what examinations, other than those for the degree mentioned, will be accepted in whole or in part in place of the preliminary examination.

## II. BACHELOR OF MUSIC.

### *University Attendance.*

III. Candidates for the degree of Mus. B. must attend, in the University of Edinburgh, during a whole Winter Session, a course or courses of instruction extending in all to not less than eighty Lectures, and including a course on the History of Music.

## III. FIRST PROFESSIONAL EXAMINATION.

IV. There is a First Professional Examination in Music in the following subjects:—

- (1) Singing or performing upon some Musical Instrument.
- (2) Reading at Sight.
- (3) Elements of Music, including Musical Modes and Scales, Notation, Measure and *Tempo*.
- (4) Harmony in not more than four parts.
- (5) Elementary Counterpoint.
- (6) Form: Sonata, Rondo, Fugue, and Minor Structures.
- (7) Outlines of the History of Music.

The Ear Test will be applied to every Candidate.

## IV. SECOND PROFESSIONAL EXAMINATION.

V. There shall be, at least one year after the candidate has passed the First Professional Examination, a second Professional Examination in Music and in Literature in the following subjects:—

- (1) One of the following languages not already taken in the preliminary examination—French, German, Italian.
- (2) Rhetoric and English Literature (including Prose Composition and a knowledge of Metrical Rules).
- (3) Harmony in not more than five parts.
- (4) Advanced Counterpoint.
- (5) Canon in two parts, and Imitation and Fugue in not more than four parts.
- (6) Form (Description of Structure and Character of Musical Forms, and Analysis of Musical Works).
- (7) Elements of Instrumentation (Compass, &c., of the Orchestral Instruments, and of the Organ and Pianoforte).
- (8) Critical Knowledge of certain prescribed Scores.
- (9) Playing at Sight from easy Vocal and Instrumental Scores, and from Figured Bass.
- (10) The History of Music.
- (11) Acoustics in so far as connected with the Theory of Music, and Physiology of the Vocal Organs.



Each Candidate will also be required to submit the following exercises composed by himself :—

- (a) A Solo Song with Pianoforte Accompaniment.
- (b) A Four-part Vocal Composition.
- (c) An Instrumental Composition (other than a Dance) for the Pianoforte or Organ, or for any Stringed or Wind Instrument with Pianoforte or Organ Accompaniment.

The extent and standard of examination is fixed by the Senatus. The examination is partly written and partly oral and practical.

#### V. DOCTOR OF MUSIC.

V. Bachelors of Music of this University, of not less than three years' standing, and not less than twenty-five years of age, may offer themselves for the degree of Mus. D. under the following regulations :—The degree is given in three Departments, those of (1) Composers; (2) Executants; (3) Theorists or Historians; and Candidates may present themselves in one or more Departments.

VI. (1) Candidates for the degree of Mus. D. as Composers must submit a prescribed number of Vocal and Instrumental Compositions in the larger forms (such as Oratorio, Opera, Cantata, Symphony, Sonata, Overture). Each work must be the original and unaided composition of the Candidate, and must be accompanied by a declaration to that effect signed by the Candidate.

(2) Candidates will be examined in the following subjects :—

- (a) The more recondite Contrapuntal Forms—Fugal Writing in more than four parts, &c.
- (b) Instrumentation, including prescribed books on the subject.
- (c) The works of the great Composers from Palestrina onwards.

VII. (1) Candidates for the degree of Mus. D. as Executants will be required to show their special skill in the execution of Solo and *ensemble* works in different styles. The works will be selected partly by the Candidates and partly by the examiners.

(2) The Candidates will be examined in sight-reading, and must give evidence of their power of playing *Orchestral Scores*, and will be required to invent *Transitions* and to modulate from one Key and Piece to another. They will further be required to pass an examination on the History and Literature of their special instrument, and on the method of teaching that instrument.

VIII. (1) Candidates for the degree of Mus. D. as Theorists or Historians must present one or more treatises on Theoretical or Historical subjects, which must be the result of research and original thought, not mere abstracts or compilations of existing works. They must be accompanied by a declaration signed by the Candidate that they are his own unaided work.

(2) Candidates will also be required to pass an examination (a) in the Theory and (b) in the History of Music.

The examination will be on a higher standard in the subject which the Candidate selects as his specialty.

IX. The examiners for the degree of Mus. D. are the same as for the degree of Mus. B.

It is competent to the University Court of the University of Edinburgh, after consultation with the Senatus, to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable.

X. (1) The degree of Mus. D. may be conferred *honoris causâ tantum*.

(2) The honorary degree of Mus. D. will not be conferred by the Senatus on any person unless recommended by the Faculty of Music in a reasoned representation, submitted in writing to the Senatus, and considered and approved by the Senatus at a special meeting at which not less than two-thirds of the members were present.

#### PRELIMINARY EXAMINATION.

The Examination in English, Latin, Greek, Mathematics, French, German, and Italian, or such other language as the Senatus may approve, is the same as the Preliminary Examination in English, Lower Latin, Lower Greek, Lower Mathematics, French, German, and Italian, or other language approved by the Senatus, for the Degree in Arts; and the Examination in Logic and Elementary Physics is of the same standard as the Preliminary Examination in these subjects for Degrees in Medicine, under the Old Regulations. The subjects are denoted in the Time-Table of the Preliminary Examinations for the Degree in Arts by the figure 4.

Candidates for Examination must apply at the Matriculation Office, University (Old) Buildings, for schedules, which must be completed and returned along with the fees, not later than 18th September 1902 and 1st March 1903 for the autumn and spring Examinations respectively.<sup>1</sup>

Candidates applying for information regarding the Preliminary Examination will be supplied with copies of the Regulations for the Preliminary Examinations for Degrees in Arts and in Medicine, which give the outlines and dates, &c., for the Preliminary Examination for Degrees in Music.

#### FEEES.<sup>1</sup>

Preliminary Examination for each appearance, 10s. 6d.

Degree of Mus. B. is £10, 10s., divided as follows:—

<sup>1</sup> If names are not entered, and fees are not paid, on or before the stated dates, a late-entry fee of ten shillings must be paid before the Candidate can be admitted to examination.

First Professional Examination . . . . .	£3	3	0
Second Professional Examination—Literary part . . . . .	1	1	0
Do. Do. —Musical part . . . . .	3	3	0
For the Diploma ( <i>payable at least two days before Graduation</i> ) . . . . .	3	3	0

Candidates who fail in any subject pay a fee of 10s. 6d. for each subject in which they are admitted to re-examination.

Candidates may pay the fees personally, or transmit them to T. GILBERT, University, Edinburgh, by *Post Office* or *Postal Orders*, or by *Bank Drafts*, crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh, but not by cheques on private accounts.

## DATES OF DEGREE EXAMINATIONS.

1903.

March 10. Names to be given in. Certificates shown, and fees paid, on or before this date.

### FIRST PROFESSIONAL EXAMINATION.

- „ 23. Mon. Singing, Playing, Reading at Sight, and Ear Test, at 11; Harmony, at 2.
- „ 24. Tu. Counterpoint, at 10; Elements of Music, at 2.
- „ 25. Wed. History of Music, at 10; Form, at 2.

### SECOND PROFESSIONAL EXAMINATION.

- „ 23. Mon. Playing at Sight from Scores, at 10; Instrumentation and Critical Knowledge of Scores, at 11; Harmony, at 2.
- „ 24. Tu. Counterpoint, at 10; Canon and Fugue, at 2.
- „ 25. Wed. History, at 10; Form, at 2.
- „ 26. Th. Acoustics and Physiology of the Vocal Organs, at 10; Rhetoric and English Literature, at 2.

### GRADUATES IN MUSIC.

THE DEGREE OF BACHELOR OF MUSIC (MUS.B.).

13th April 1898.

*Matthew Shirlaw.*

14th April 1899.

*Agnes Johnston.*

|

*Christina Struthers.*

THE HONORARY DEGREE OF DOCTOR OF MUSIC (MUS.D.).

1895.

Ebenezer Prout, B.A.

1896.

Sir Alexander Campbell Mackenzie.

1899.

Hugo Riemann, Ph.D., Dozent at the University of Leipzig.  
 Sir Herbert Stanley Oakeley, D.C.L., LL.D.

#### BUCHER SCHOLARSHIP.

By the will of Signor Theophile Bucher, his trustees were enjoined to pay over the residue of his estate, amounting to about £4000, to the University, for the purpose of founding one or more Scholarships in Music to be held by any young men born in Scotland, who may shew a natural talent for music and wish to make it their profession, for the purpose of improving their education, and enabling them to prosecute the study of the science and art of Music in Italy, Germany, and France.

The Subjects of Examination for the Scholarship include Harmony, Rhythm, and Counterpoint, and the competition is open to young men between the ages of sixteen and twenty-five inclusively, who have been born in Scotland, and who either are, or have been, enrolled as students in the Faculty of Music in this University. The value shall not, after deducting the expenses of management and of examination, exceed £120 in any one year, the interest in excess of that sum to be added to the capital to form a second Scholarship. It is tenable for three years, and may be extended to a period not exceeding two years, during which time the scholars must prosecute the study of the science and art of Music in Italy, Germany, and France, as the Senatus, on the recommendation of the Faculty of Music, may determine. The Scholarship may be open in 1905. See Scheme of Administration, page 709 of CALENDAR for 1894-95.

1902. *J. P. Conn.*

FREDERICK NIECKS, Mus.D.,  
*Dean of the Faculty of Music.*

JOINT BOARD OF EXAMINERS OF THE  
SCOTTISH UNIVERSITIES.

A Joint Board of Examiners, which controls and supervises the Preliminary Examinations, is appointed annually by the University Courts of the four Scottish Universities, and holds office from 1st February to 31st January in the succeeding year. The Board sits for a year at each University in rotation, viz. :—Edinburgh, Glasgow, Aberdeen, St Andrews. The Principal of the University at which the Board sits is Chairman for the time, and the Secretary of the University Court is Convener.

Members of the Board, which meets at Glasgow for the current year (1st February 1902 to 31st January 1903) :—

*Chairman*—Principal, The Very Rev. R. Herbert Story, D.D., LL.D., University, Glasgow.

*Convener*—Alan E. Clapperton, B.L., University, Glasgow.

*Appointed by Edinburgh University*—Professor Oliver Elton, M.A. (English); Professor Hardie, M.A. (Classics); Professor Chrystal, M.A., LL.D. (Mathematics and Dynamics); George B. Gardiner, M.A., D.Sc. (Modern Languages).

*Appointed by Glasgow University*—Professor Raleigh (English); Mr Robert G. Nisbet (Classics); Mr A. Veitch Lothian (Mathematics and Dynamics); Mons. Charles Martin, (Modern Languages).

*Appointed by Aberdeen University*—Alexander Mackie, M.A. (English); Professor J. Wight Duff, M.A. (Classics); Professor Pirie, M.A., LL.D. (Mathematics and Dynamics); William Scholle, Ph.D. (Modern Languages).

*Appointed by St Andrews University*—Professor Alexander Lawson, M.A., B.D. (English); Professor Wallace Martin Lindsay, M.A. (Classics); George Lawson, M.A., B.Sc. (Mathematics and Dynamics); Stewart F. Butchart, M.A. (Modern Languages).

The Joint Board from time to time issues Supplementary regulations for the Preliminary Examination, and sets the papers, which are common to all the Scottish Universities. It

also gives instructions to the Examiners with a view to secure adequate and uniform examination.

#### PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

In addition to the Regulations, Section III. to V. inclusively, pages 110-113, the Joint Board have made the following Supplementary Regulations:—

1. ENGLISH will include Grammar, Composition, Literature, History, and Geography.

(a) *Grammar* will include Analysis, Parsing, Derivation, and Correction of Sentences.

(b) *Composition* will include an Essay and Paraphrasing.

(c) *Literature* will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge.

The books prescribed are:—For October 1902—1. Shakespeare, *As You Like It*. 2. Lamb, *First Essays of Elia*. 3. Dickens, *Barnaby Rudge*. For April and October 1903—1. Shakespeare, *Coriolanus*. 2. Scott, *Fortunes of Nigel*. 3. Carlyle, *Essay on Burns*.

(d) *History* will include a knowledge of one of the three following periods, questions in each of which will be set in each examination, namely:—The Outlines of the History of both England and Scotland; (a) from the Roman occupation to 1603; (b) from 1603 to the Union of the Parliaments in 1707; (c) from the Union of the Parliaments to the Reform Bill of 1832.

(e) *Geography* will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

2. The LATIN Examination on the Higher Standard will be—Translation, Prose Composition, Grammar, and Sentences.

3. The GREEK Examination on the Higher Standard will be—Translation and Sentences (*or* an easy passage of continuous English Prose, set either as an alternative or as a substitute), and Grammar.

The passages for Translation both from Greek and Latin will include Prose and Verse.

4. The LATIN Examination on the Lower Standard will be—Translation and Parsing, Prose Composition, Grammar, and Sentences.

5. The GREEK Examination on the Lower Standard will be—Translation, Sentences, and Grammar.

In the Latin and the Greek papers, both on the Higher and Lower Standards, Candidates are required to satisfy the Examiners both in composition and in translation.



Candidates who, having taken in *Latin* or *Greek* the Examination on the Higher Standard, have failed to pass on that Standard, but have obtained a percentage of marks equivalent to a pass on the Lower Standard, may be held by the Board to have passed the Examination on the Lower Standard.

6. In the Examination in MATHEMATICS on the Higher and Intermediate, and on the Lower Standards, each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as book work.

The papers in Mathematics on the Higher Standard and on the Intermediate Standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions:—Two-fifths to *Geometry*, two-fifths to *Algebra* (including *Arithmetic*, if thought desirable), and one-fifth to *Trigonometry*.

Candidates for the Higher Standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass mark for Candidates on the Intermediate Standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the Intermediate Standard; but such Candidates will receive credit for any question they may answer.

The paper in MATHEMATICS on the Lower Standard will be devoted to the various subjects comprised, in as nearly as possible the following proportions:—Four-ninths to *Geometry*, three-ninths to *Algebra*, and two-ninths to *Arithmetic*.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a Candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

7. The paper on DYNAMICS will be directed to test the Candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals.

About one-seventh of the paper will be devoted to *Kinematics*, and the remainder of the paper will be assigned to *Kinetics*, *Statics*, and *Hydrostatics* in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—

(1) KINEMATICS.—Displacements, velocities, and accelerations of a moving point, with their compositions and resolutions. Translations of a rigid body. Relative velocity of two moving points.

(2) KINETICS.—The laws of motion, momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including projectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres.

(3) STATICS.—Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines.

(4) HYDROSTATICS.—Definitions of *solid, fluid, liquid, gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes. Experimental determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon, pumps for liquids, air-pumps, and the diving-bell.

Questions may be set which involve the Trigonometry of right-angled triangles.

#### 8. For the Examination in FRENCH and GERMAN—

Two papers will be set, both in French and German; an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in Verse, one in Prose), and a selection of Literary or Philological questions, from which the candidate will be allowed to choose *one only*.

The Questions on Literature will be confined year by year to certain groups of authors, as in the following scheme:—

*French*.—In October 1902 (*XVIIIth Century*) Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Mme. de Sévigné, Bossuet, Fénelon, La Rochefoucauld, La Bruyère. In April and October 1903 (*XIXth Century*)—Chateaubriand, Mme. de Staël, Lamartine, Victor Hugo, Alfred de Musset, Alexandre Dumas, George Sand, Balzac, Prosper Mérimée, Guizot, Thiers, Mignet, Michelet.

*German*.—In October 1902—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich, Leopold Stolberg, Höltz, Leisewitz. In April and October 1903—Jean Paul, the Schlegels, Novalis, Tieck, Arnim, Brentano, Grillparzer, Heine, Uhland.

#### EXAMINATIONS EXEMPTING FROM THE PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

The Joint Board accept the following Examinations as exempting from the Preliminary Examination in Arts and Science, either *wholly* or *in part*:—

1. A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

2. For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificates of the Scotch Education Department in Latin, Greek, and Mathematics, will be accepted as equivalent to the Higher Standard in each of these subjects, as prescribed by the Arts Regulations, and the Lower Grade Certificate to the Lower Standard; the Higher and Honours Grade Leaving Certificate in English, in Modern Languages, and in Dynamics will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Regulations.

3. A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint Board also accepts for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics; (2) London University Matriculation Mechanics as equivalent to Dynamics; and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

4. *Oxford University Senior Local Examinations*, if passed with distinction, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics; also in English, provided that in English the Candidate has passed with distinction in division 1,<sup>1</sup> and in division 3, or 4, or 5;<sup>1</sup> a pass without distinction, will be accepted *pro tanto* for Lower Latin and Lower Greek, and Lower Mathematics.

5. *Oxford University Higher Examination for Women* will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and if with distinction, for French and German and Higher Mathematics.

6. *Cambridge University Local Examinations* :—

(a) *Junior Locals*. The pass with distinction will be accepted for Lower Mathematics, provided the Candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

(b) *Senior Locals*. The pass will be accepted as exempting *pro tanto* for Lower Latin, and Lower Greek, and for Higher Mathematics; and if with distinction, for English, Higher Latin, Higher Greek, and Modern Languages.

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<sup>1</sup> Division 1; Grammar and Analysis; 2. Ancient History; 3. English History;

4. Shakespeare and Scott; 5. Physical, Political, and Commercial Geography.

7. *Cambridge University Higher Local Examinations* will be accepted *pro tanto*.

8. *Oxford and Cambridge Schools Examination Board.*

*The Lower Certificate* will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

*Higher Certificate.* The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and additional Mathematics; if with distinction, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

9. *Victoria University.* The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the Examination required for admission to a graduating class in any language. (See Section iv., Sub-sections (2) (3) of Regulations, page 112.)

### PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.<sup>1</sup>

REGULATIONS FOR THE PRELIMINARY EXAMINATION FOR DEGREES  
IN MEDICINE AND SURGERY, SUPPLEMENTARY TO SECTIONS  
III.-VI. INCLUSIVELY, PAGES 382 AND 383 HEREOF, ABRIDGED  
FROM THE REGULATIONS OF THE JOINT BOARD.

The papers set in Latin, Greek, and Mathematics are the same as those set on the Lower Standard in these subjects in the Arts and Science Preliminary Examination.

These are defined in the Regulations relating to the Arts and Science Preliminary, as follows:—

The *Latin*<sup>2</sup> Examination on the Lower Standard will be—Translation and Parsing, Prose Composition, Grammar, and Sentences.

The *Greek*<sup>2</sup> Examination on the Lower Standard will be—Translation, Sentences, and Grammar.

In the Latin and Greek papers, candidates are required to satisfy the Examiners both in composition and in translation.

*Mathematics* on the Lower Standard will comprise:—

- (1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest.
- (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations.
- (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with Easy Deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

<sup>1</sup> See Examinations accepted as exempting, page 463

<sup>2</sup> No Books prescribed.

The paper in Mathematics will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to *Geometry*, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a Candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

In *English* no set books are prescribed, nor is a general knowledge of the life and works of the greater authors expected of Candidates, but one or two questions may be set, giving an opportunity to Candidates to show a knowledge of famous literary works. The historical questions will not be confined to any one period, but will cover the whole of British History, and will be set in such a way as to give an opportunity to Candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper will be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including Correction of Sentences, Parsing, Analysis of Sentences, and Derivations), two of a literary and general kind. Eight answers will be required. The Essay, the Paraphrase, one answer on History, and one on Geography will be compulsory.

*French and German.*<sup>1</sup>—One paper will be set in French and one in German. The papers will be of a Lower Standard than those set in these subjects in the Arts and Science Preliminary. The time allowed for each of these papers will be three hours. The paper in each subject will comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character for translation.

It shall be in the option of any Candidate for the Medical Preliminary to take the papers set on the Higher Standard for the Arts Preliminary in any of the subjects. (See Arts Regulations.)

Candidates who, having taken *English, Latin, Greek, Mathematics*, or a *Modern Language*, on the Higher Standard, as prescribed by the Regulations for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, will be held to have passed the Medical Preliminary in these subjects, provided that all the required subjects are passed at not more than two Examinations.

EXAMINATIONS ACCEPTED AS EXEMPTING FROM THE PRELIMINARY  
EXAMINATION IN MEDICINE.

*Provided always that the Regulations of the General Medical Council regarding the Registration of Students of Medicine be complied with.*

1. In terms of the Regulations for Degrees in Medicine and Surgery,

<sup>1</sup> No Books prescribed.

“a Degree in Arts or in Science (not being a Degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, will exempt from the Preliminary Examination.”

In virtue of the powers conferred on them by the Medical Regulations, Section VI., page 383, the Joint-Board have resolved as follows :—

2. Any Candidate who holds a Certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificates of the Scotch Education Department, or partly at the University Examination, and partly through the Leaving Certificates, will be held to have passed the Preliminary Examination for Medicine, provided that the Examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by the Regulations for Graduation in Medicine and Surgery (Sections III.-VI. inclusive).

3. A Candidate who has passed the Arts and Science Preliminary Examination of the Joint Board in any subject (Higher Grade where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A Candidate who has obtained the Leaving Certificate (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The Regulation that all the subjects of the Examination shall be passed at one or not more than two Examinations shall not be held to apply to the above cases, 2, 3, and 4. But Candidates complying with these Rules (2, 3, and 4) must obtain a University Certificate specifying the Examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said Certificate to the Medical Registrar in order to registration.

Further, each such Candidate when applying for said Certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. Lower Grade Leaving Certificates of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination, provided the examinations in all the requisite subjects have been passed at one or not more than two Examinations.

6. The following English and Irish University Examinations will be accepted (provided they include all the subjects required under the Regulations for Graduation in Medicine and Surgery, and the Regulations of the General Medical Council. See Sections III.-VI. inclusively, pages 382 and 383, viz. :—



*Oxford.* Responsions, or Moderations—Provided the Candidate pass the Examination of the Joint Board in English.

Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the Certificates shall bear that the Candidate has passed in Division 1 of the subject, and in either Division 3, 4, or 5.

Higher Examination for Women will be accepted *pro tanto*.

*Cambridge.* Previous Examination—Provided that Candidates who have passed it prior to Michaelmas 1896 shall pass the Examination of the Joint Board in English. If passed after Michaelmas 1896, the Previous Examination will be accepted as exempting *in toto*.

Senior Local Examinations will be accepted *pro tanto*.

Higher Local Examinations will be accepted *pro tanto*.

*Oxford and Cambridge Schools Examination.* Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the Certificate shall bear that the Candidate has passed in both Elementary and Additional Mathematics.

*London University.* Matriculation Examination.

*Dublin, Trinity College.* Public Entrance Examination.

*Royal University of Ireland.* Matriculation Examination.

*Victoria University.* Preliminary Examination ; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the Examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further Examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two Examinations.

7. The Examinations of the following Indian, Colonial, and Foreign Universities and Colleges, will be accepted<sup>1</sup> (provided the Examinations include all the subjects required by the General Medical Council, and prescribed by the Regulations for Graduation in Medicine and Surgery). See Sections III.-VI. inclusively, pages 382 and 383, viz. :—

*Universities of* (1) *Calcutta*, (2) *Madras*, (3) *Bombay*, (4) *Allahabad*, and (5) *Panjab*.—Entrance Examination.<sup>2</sup>

*Universities of* (1) *Cape of Good Hope*.—Matriculation Examination ; (2) *Tasmania*—Matriculation Examination ; (3) *New Zealand*—Matriculation and Medical Preliminary Examinations ; (4) *Melbourne*—Matriculation Examination ; (5) *Sydney*—Matriculation

<sup>1</sup> Regulation V., page 383, will be held to apply to the acceptance of these examinations.

<sup>2</sup> For purposes of Registration the General Medical Council require, in the case of Calcutta and Madras the "First Examination in Arts" ; in the case of Bombay, the "Matriculation Examination" ; and in the case of Allahabad and Panjab, the "Intermediate Examination in Arts."

Examination; (6) *Adelaide*—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

*The Provincial Education Department of Ontario*.—Departmental Pass Arts Matriculation Examination.

*Trinity University, Toronto*.—Matriculation Examination

*The University of Toronto*.—Senior or Junior Matriculation Examination.

*Queen's College and University, Kingston*.—Matriculation Examination.

*M'Gill University*.—Matriculation Examination.

*King's College, Windsor, Nova Scotia*.—Responsions.

*Dalhousie College, Halifax*.—Matriculation Examination.

*Mount Allison College, Sackville, New Brunswick*.—Matriculation Examination.

*The University of Winnipeg*.—Preliminary Examination in Arts.

*Victoria College, Upper Canada*.—Matriculation Examination.

*The University of Halifax, Nova Scotia*.—Matriculation Examination.

*The University of Fredericton, New Brunswick*.—Matriculation Examination.

*The Western University of Ontario*.—Matriculation Examination.

*University of Manitoba*.—Previous Examination.

*Codrington College (Barbados)*.—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

*Germany and other Continental Countries*.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examination to the Universities.

8. In the case of Candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities, whose certificates are not included in the list of Equivalent Examinations issued by the Joint Board, a Committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, is empowered to accept such certificates, if it deems them sufficient, provided that all such cases are reported to the Joint Board at their next meeting.

## Class Prize and Honours Lists.

### FACULTY OF ARTS.

#### SUMMER SESSION, 1901.

##### LATIN.

###### HONOURS CLASS—HONOURS GRADUATION HALF-COURSE.

FIRST-CLASS CERTIFICATES OF MERIT.—1. William M. Calder, Edin-killie, Forres (*Medal*); 2. Atholl A. D. MacGregor, Edinburgh; 3. Alexander F. Giles, Edinburgh.

SECOND-CLASS CERTIFICATE OF MERIT.—4. Madeline G. Edgar, Edinburgh.

PROSE COMPOSITION.—1. W. M. Calder; 2. A. F. Giles.

###### SENIOR CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. Samuel S. Anderson, Edinburgh (*Medal*); 2. John Anderson, Eskbank; 3. George Kitchin, Edinburgh.

SECOND-CLASS CERTIFICATES OF MERIT.—4. Archibald King, Polton; 5. George Young, Edinburgh; 6. James D. Fulton, Edinburgh; 7. Thomas R. Gardiner, Edinburgh.

PROSE COMPOSITION.—1. S. S. Anderson; 2. John Anderson; 3. A. King and G. Young—equal.

ROMAN HISTORY.—1. John Anderson and S. S. Anderson—equal.

###### JUNIOR CLASS—PRELIMINARY COURSE.

FIRST-CLASS CERTIFICATES OF MERIT.—1. Jeanie G. Geddes, Wick; 2. Margaret A. Couling, Edinburgh, and Mary E. Watson, Edinburgh—equal.

SECOND-CLASS CERTIFICATES OF MERIT.—4. Andrew Robertson, Leslie; 5. Sidney E. A. Miller, London.

PROSE COMPOSITION.—1. Jeanie G. Geddes; 2. Mary E. Watson; 3. Margaret A. Couling.

JAMES MILL, M.A., *Lecturer.*

##### GREEK.

###### HONOURS CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. R. C. T. Mair, Aberdeen (*Medal*); 2. W. M. Calder, Edin-killie; 3. A. F. Giles, Edinburgh; 4. Gilbert Watson, Edinburgh.

SECOND-CLASS CERTIFICATES OF MERIT.—5. A. J. Laing, Dundee; 6. A. D. A. M'Gregor, Edinburgh, and J. C. H. Macnair, Edin-

burgh—equal ; 8. W. C. Robertson, Edinburgh ; 9. M. M. Wood, Cullen ; 10. Beatrice S. B. M'Murtrie, Edinburgh.

#### SENIOR CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. C. Grant, Lairg ; 2. J. H. MacLagan Wedderburn, Forfar.

SECOND-CLASS CERTIFICATES.—3. G. B. MacGregor, Edinburgh, and Gilbert Atkinson, Scotland—equal ; 5. J. E. Dean, Bradford.

#### JUNIOR CLASS.

SECOND-CLASS CERTIFICATES.—1. A. B. Webster, Christchurch, New Zealand ; 2. A. Russell, Bathgate.

A. W. MAIR, M.A., *Lecturer.*

### ENGLISH LITERATURE.

#### HONOURS CLASS.

##### EXAMINATION AND ESSAY.

FIRST-CLASS CERTIFICATES.—1. Alexander Gray, Dundee, and James Munro, Edinburgh—equal (*Medallists*) ; 3. Jeanie Cardno Rait, Aberdeen ; 4. John Liddell Geddie, Edinburgh.

SECOND-CLASS CERTIFICATES.—5. William Landells, M.A., Edinburgh.

NOTE.—George A. Waters, Thurso, obtained the first place in the Essays, but did not take the Examination.

#### SPECIAL READINGS.

1. John Liddell Geddie, Edinburgh ; 2. Alexander Gray, Dundee ; 3. James Munro, Edinburgh.

G. GREGORY SMITH, M.A., *Lecturer.*

### ELEMENTARY HEBREW.

FIRST-CLASS CERTIFICATE.—1. James Waterston, M.A., Edinburgh (*Medal*).

SECOND-CLASS CERTIFICATES.—2. Alexander Barclay, Coupar-Angus ; 3. C. L. Hunter, St Boswells.

### ELEMENTARY ARABIC.

J. K. Macgregor, M.A., Edinburgh.

ANDREW TWEEDIE, B.D.,  
*University Assistant in Semitic Languages.*

### MATHEMATICS.

#### HONOURS.

FIRST-CLASS CERTIFICATES.—1. A. King, Mid-Lothian (*Medal*) ; 2. J. Black, East Calder, and A. H. Gardiner, Edinburgh—equal.

SECOND-CLASS CERTIFICATES.—W. B. Brander, Edinburgh ; H. H. Craw, Berwickshire ; A. S. Ogilvie, Forfar.

SENIOR (Graduation Second Half Course).

FIRST-CLASS CERTIFICATES.—1. T. R. Gardiner, Cork (*Medal*) ; 2. J. Handyside, Leith ; 3. G. Robertson, Edinburgh ; 4. W. Farquharson, Edinburgh.

SECOND-CLASS CERTIFICATES.—J. H. Aikman, Leith ; T. F. Main, Edinburgh ; Miss L. S. Ross, Edinburgh.

SENIOR (Graduation First Half Course).

FIRST-CLASS CERTIFICATES.—1. J. M'Caig, Dumfries (*Medal*) ; 2. G. Watson, Edinburgh ; 3. J. W. S. Davidson, Edinburgh.

SECOND-CLASS CERTIFICATES.—W. C. O. Barrie, Edinburgh ; W. N. Bolam, Leith ; Miss A. L. Catto, Edinburgh ; W. R. Cunningham, Leith ; T. H. Heddle, Edinburgh ; S. Hunter, Edinburgh ; L. F. Robertson, Edinburgh.

CHAS. TWEEDIE, M.A., B.Sc., *Lecturer*.

#### DYNAMICS.

FIRST-CLASS CERTIFICATES.—1. A. Howe Gardner, Edinburgh ; 2. H. G. R. Leonard, India ; 3. James Black, Scotland.

SECOND-CLASS CERTIFICATES.—4. H. H. Craw, Scotland ; 5. Margaret Adamson, Scotland ; 6. Isabella M. Towers, Canada.

C. G. KNOTT, D.Sc., *Lecturer*.

#### ADVANCED EXPERIMENTAL PHYSICS.

MEDALS AND PRIZES.—G. W. Jones and E. B. Ross—equal.

#### ADVANCED NATURAL PHILOSOPHY (Tutorial).

PRIZES AND FIRST-CLASS CERTIFICATES.—1. George A. Carse and John Morrison—equal ; 3. Alexander Gray.

W. PEDDIE, D.Sc., *Lecturer*.

#### BRITISH HISTORY (General and Constitutional)—1066-1832.

FIRST-CLASS CERTIFICATES.—1. Hugh M. Cowan, Paisley (*Medal*) ; 2. George Milne Harper, India, and Ernest H. Wishart, Dundee—equal ; 4. Neil Forbes Grant, Portobello ; 5. J. S. Allison, M.A., Portobello ; 6. James Munro, Edinburgh.

SECOND-CLASS CERTIFICATES.—7. J. L. M'Callum, Cumberland ; 8. William R. Cunningham, Leith ; 9. Kenneth W. M. Middleton, B.A., Ross, and Alfred J. Sturrock, M.A., Edinburgh—equal ; 11. John B. Marshall, Perth.

D. P. HEATLEY, *Lecturer*.

# POLITICAL SCIENCE.

FIRST-CLASS CERTIFICATES.—1. David G. Mitchell, B.Sc., Edinburgh (*Medal*); 2. J. L. M'Callum, Cumberland; 3. Neil Forbes Grant, Portobello.

SECOND-CLASS CERTIFICATES.—4. Hugh M. Cowan, Paisley; 5. George M. Harper, India; 6. Kenneth W. M. Middleton, B.A., Ross, and Ernest H. Wishart, Dundee—equal.

D. P. HEATLEY, *Lecturer.*

# ECONOMICS.

FIRST-CLASS CERTIFICATES.—1. William B. Brander, Edinburgh (*Medal*); 2. William H. Nelson, Rosewell (*Prizes*); 3. H. G. R. Leonard, India; 4. David G. Mitchell, B.Sc., Edinburgh; 5. G. Turner Ford, Portobello; 6. J. S. Allison, M.A., Edinburgh; 7. Alfred J. Sturrock, Edinburgh; 8. Herbert Marsh, Edinburgh; 9. Colin M. Murray, India; 10. John M. Hendrie, Dumfries.

HONOURABLE MENTION FOR VOLUNTARY PAPERS.—J. H. MacLagan-Wedderburn, Forfar; G. Grant M'Kerron, Edinburgh; D. M. Maclean, Plockton.

ARCH. B. CLARK, M.A.

*University Assistant in Political Economy.*

# WINTER SESSION, 1901-1902.

# LATIN.

# HONOURS CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. G. F. Dingemans, Zutphen, and Charles Goodall, Edinburgh—equal (*Medals*); 3. George Robertson, Edinburgh; 4. Catherine A. Nicolson, Edinburgh (*Prizes*); 5. D. H. Wares, Wick; 6. A. J. D. Lothian, Edinburgh; 7. R. M. Maciver, Stornoway.

SECOND-CLASS CERTIFICATES OF MERIT.—8. Lilian S. Ross, Edinburgh; 9. John Handyside, Edinburgh; 10. Madeline G. Edgar, Edinburgh.

ENTITLED TO FIRST-CLASS CERTIFICATE, BUT NOT COMPETING.—J. M. Sutherland, Edinburgh.

PROSE COMPOSITION.—1. D. F. Dingemans and D. H. Wares—equal (*Prizes*).

ENTITLED TO COMPOSITION PRIZE, BUT NOT COMPETING.—C. Goodall.

VERSE COMPOSITION.—D. H. Wares.

HISTORY OF LITERATURE.—G. F. Dingemans.

LATIN ESSAY.—C. Goodall.

ENGLISH ESSAY.—Catherine A. Nicolson.



SENIOR CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. James C. Stewart, Edinburgh; 2. Walter Carter, Berwick-on-Tweed; 3. John W. Nelson, Rosewell (*Medals*); 4. James M. Finlayson, Burntisland; 5. David C. Wilkie, Edinburgh; 6. Alexander K. Jameson, Edinburgh; 7. Alexander Gibson, Edinburgh, and Margaret S. J. Maybin, Ayr—equal; 9. Thomas White, Edinburgh; 10. Janet J. Kerr, Edinburgh (*Prizes*); 11. Henry D. G. Law, Edinburgh; 12. Peter Milne, Lasswade; 13. John L. Watson, Edinburgh; 14. William Ross, Forres; 15. David Ross, Edinburgh; 16. David Somerville, Edinburgh; 17. John Maclean, Stornoway; 18. John Pinkerton, Edinburgh; 19. Andrew M'Nair, Kilmarnock.

SECOND-CLASS CERTIFICATES OF MERIT.—20. Arabella S. Furnell, Edinburgh, and William Waddell, Kilwinning—equal; 22. Donald M. Watson, Crieff; 23. James F. Nicoll, Edinburgh; 24. Richard C. Alexander, Edinburgh; 25. Margaret M. Robertson, Prestwick; 26. John C. Turner, Glasgow; 27. Margaret M. Drever, Kirkwall; 28. Alex. G. W. Taylor, Tarbolton; 29. Julia M. C. Waltenberg, Joppa; 30. Jeanie G. Geddes, Wick; Jane B. T. Macdonald, Edinburgh; and Jessie H. Purdie, Innerwick—equal; 33. Mary S. Hall, Hawick; 34. William Wilson, Lasswade; 35. Margaret A. Falconer, Drumnadrochit, and Isabella M. Towers, Portobello—equal; 37. John Stevenson, Ayr; 38. May R. Barr, Larkhall; 39. Ian T. A. Macdonald, Chard, and David Malcolm, Perth—equal.

LATIN PROSE COMPOSITION.—1. J. W. Nelson; 2. W. Carter and J. C. Stewart—equal (*Prizes*); 4. A. K. Jameson; 5. A. Gibson and Margaret S. J. Maybin—equal; 7. J. M. Finlayson; 8. T. White; 9. H. D. G. Law; 10. Margaret M. Drever.

VERSE COMPOSITION.—H. D. G. Law.

HISTORY AND LITERATURE.—1. J. C. Stewart (*Prize*); 2. W. Carter; 3. D. Ross; 4. D. C. Wilkie.

JUNIOR CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES OF MERIT.—1. Margaret K. Ross, Scone (*Medal*); 2. James A. Will, Edinburgh; 3. Jeannetta Melrose, Hawick.

SECOND-CLASS CERTIFICATES OF MERIT.—4. George Laidlaw, Ecclefechan, and Mary Wedderspoon, Gollanfield—equal; 6. Mary B. Ingles, Selkirk.

LATIN PROSE COMPOSITION.—1. James A. Will (*Prize*); 2. Margaret K. Ross; 3. Mary Wedderspoon.

HISTORY AND LITERATURE.—George Laidlaw.

W. R. HARDIE, M.A., *Professor.*

# GREEK.

## HONOURS CLASS.

FIRST-CLASS CERTIFICATES OF MERIT.—1. G. F. Dingemans, Zutphen (*Medal and Scot and Dunbar Prize*); 2. Charles Goodall, Edinburgh, and George Robertson, Edinburgh—equal; 4. D. H. Wares, Wick; 5. R. M. Maciver, Stornoway—(*Prizes*); 6. J. M. Sutherland, Edinburgh.

SECOND-CLASS CERTIFICATES OF MERIT.—7. A. M. Shaw, Inverness; 8. W. E. Wait, Edinburgh; 9. Miss C. A. Nicolson, Edinburgh, and S. Waterston, Edinburgh—equal.

COMPOSITION PRIZE.—1. Charles Goodall, Edinburgh (*Honourable Mention*); 2. D. F. Dingemans and George Robertson—equal; 4. D. H. Wares.

## SENIOR CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. J. C. Stewart, Edinburgh (*Medal*); 2. J. M. Finlayson, Burntisland; 3. Walter Carter, Berwick-on-Tweed, and A. K. Jamieson, Edinburgh—equal; 5. Thomas White, Edinburgh; 6. John W. Nelson, Rosewell; 7. David Somerville, Edinburgh; 8. D. C. Wilkie, Edinburgh; 9. John Handyside, Edinburgh; 10. Charles P. Grant, Lochinver; 11. John Maclean, Stornoway; 12. D. M. Watson, Crieff; 13. Miss M. S. J. Maybin, Ayr; 14. G. F. Barbour, Pitlochry.

SECOND-CLASS CERTIFICATES OF MERIT.—15. J. L. Watson, Edinburgh; 16. Peter Milne, Lasswade; 17. H. D. G. Law, Edinburgh; 18. J. R. Craig, Kelso; 19. T. S. Crichton, Arbroath; 20. T. Hislop, Bannockburn; H. C. Logie, Orkney; and J. C. Turner, Glasgow—equal; 23. J. Pinkerton, Edinburgh; 24. J. A. T. Macdonald, Somerset; 25. Miss Isobel J. Trench, London; 26. William Ross, Forres; 27. P. W. Lilley, Arbroath; 28. J. Williamson, Wick; 29. J. D. M'Ewen, Kirkwall.

COMPOSITION.—J. C. Stewart.

HISTORY.—J. M. Finlayson and J. C. Stewart—equal.

LITERATURE.—1. J. M. Finlayson; 2. Walter Carter and D. C. Wilkie—equal.

HONOURABLE MENTION.—A. K. Jamieson, J. C. Stewart, and Thomas White.

## JUNIOR CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. G. S. Falconer, Edinburgh, and John A. Macrae, Edinburgh—equal; 3. Donald Macleod, Skye.

SECOND-CLASS CERTIFICATES OF MERIT.—4. Robert Elliott, Ireland; 5. Alexander Taylor, Fortrose.

S. H. BUTCHER, LL.D., *Professor.*

# RHETORIC AND ENGLISH LITERATURE.

## HONOURS CLASS (FULL COURSE).

PRIZE AND FIRST-CLASS CERTIFICATE.—1. William Landells, Dumfries (*Medallist*).

FIRST-CLASS CERTIFICATE.—2. Jane N. Lowson, Belfast.

SECOND-CLASS CERTIFICATES.—3. Jeanie C. Rait, Pitlochry; 4. J. Liddell Geddie, Scotland.

## ORDINARY CLASS.

CLASS PRIZES AND FIRST-CLASS CERTIFICATES.—1. James Munro, Edinburgh; 2. Harriet S. Nisbet, Edinburgh (*Medallists*); 3. Alexander Mitchell, Edinburgh; 4. Alexander Barclay, Goupar-Angus, and Neil Forbes Grant, Scotland—equal; 6. Alice Marjory Jones, Dundee; 7. Thomas M. Finlay, Shetland; 8. James K. Arklay, Dundee; 9. David H. Hislop, Scotland, and Henry W. Meikle, Edinburgh—equal; 11. David W. Henderson, Leith; Alexander MacLennan, Kingussie; and Margaret Walker, Dalbeattie—equal.

SECOND-CLASS CERTIFICATES.—14. Cathie F. Lee, Nairn; 15. Alex. J. Merriles, Scotland; Alexina S. Brims, Caithness; and Alex. D. M'Leod, Scotland—equal; 18. Hermina J. Henderson, Munloch; 19. Lizzie M. M. Adam, Scotland, and Liliac MacGregor, Dumfries—equal; 21. John Jackson, Glasgow; Robert M. Weir, Lesmahagow; and George G. R. Brebner, Bloemfontein—equal; 24. A. Falconer Giles, Edinburgh; John Paterson, Ayr; and James Ewing, Scotland—equal; 27. John W. Oastlor, Meigle; 28. Hugh B. Watson, Milnathort; Lilian S. Ross, Arbroath; and George Hamilton, Ayrshire—equal; 31. Catherine R. Borland, Scotland; William Falconer, Leith, and Elizabeth Reid, Scotland—equal; 34. Alex. R. Bee, Scotland, and Janet Gilmour, Bute—equal; 36. Samuel R. Simpson, Edinburgh, and James F. Hair, Scotland—equal.

ESSAY PRIZES AND FIRST-CLASS CERTIFICATES.—1. Neil Forbes Grant, Scotland; 2. James Munro, Edinburgh (*Medallists*); 3. David H. Hislop, Scotland; 4. Alexander MacLennan, Kingussie, and Alexander D. M'Leod, Scotland—equal; 6. James Arklay, Dundee; 7. William G. O. Barrie, Scotland, and Hugh B. Watson, Milnathort—equal; 9. David W. Henderson, Leith; 10. Liliac MacGregor, Dumfries.

SECOND-CLASS CERTIFICATES.—11. Kenneth Edward, Dundee; A. Falconer Giles, Edinburgh, and Alexander R. Bee, Scotland; —equal; 14. Alex. Barclay, Coupar-Angus; James Ewing, Scotland; and D. W. Greenfield, Scotland—equal; 17. Thomas M. Finlay, Shetland; Stephen Forrest, Scotland; and Jessie Chrystal Macmillan, Scotland—equal; 20. William Allan, Edinburgh; Hermina J. Henderson, Scotland; Harriet S. Nisbet, Edinburgh;

John Paterson, Ayr ; and Alex. P. Watson, Aberdeen—equal ; 25. Edw. D. Anderson, Scotland ; Thomas Baynes, Scotland ; and Alice Marjory Jones, Dundee—equal ; 28. Lizzie M. M. Adam, Scotland ; George Hamilton, Ayrshire ; John W. Oastler, Meigle ; and Alexina S. Brims, Caithness—equal.

PRIZE FOR VERSE.—A. Falconer Giles, Edinburgh.

*Prox. Acc.*—M. Maclagan-Wedderburn, Edinburgh.

EARLY ENGLISH TEXT SOCIETY'S PRIZE.—Alex. MacLennan, Kingussie.

*Prox. Acc.*—Catherine R. Borland, Scotland.

SCOTTISH TEXT SOCIETY'S PRIZE.—H. W. Meikle, Edinburgh.

*Prox. Acc.*—James K. Arklay, Scotland, and David W. Henderson, Leith.

GEORGE SAINTSBURY, M.A., *Professor.*

## OLD AND MIDDLE ENGLISH.

### HONOURS COURSE.

FIRST-CLASS CERTIFICATES.—1. John Liddell Geddie, Edinburgh (*Medal and Scottish Text Society's Prize*) ; 2. William Baikie Heddle, Kirkwall (*Early English Text Society's Prize*) ; 3. William Landells, Dumfries.

SECOND-CLASS CERTIFICATE.—4. Jean Cardno Rait, Pitlochry.

G. GREGORY SMITH, M.A., *Lecturer.*

## FRENCH.

### HONOURS CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. Wilhelmina G. Jameson (*Medal and Prize offered by His Excellency the French Minister of Public Instruction*) ; 2. Margaret Spears (second prize).

FIRST-CLASS CERTIFICATES.—3. Margaret Black ; 4. Minnie Moore ; 5. Sam. Stephen Anderson ; 6. Margaret A. M. Maclean.

SECOND-CLASS CERTIFICATES.—7. D. H. Low ; 8. Hugh Miller ; 9. Elizabeth J. Ross ; 10. Matthys P. Rooseboom ; 11. Elizabeth Porter ; 12. Flora O'Riordan ; 13. Agnes M'Gregor ; 14. Marion Moffat ; 15. Kath. M'Kenzie.

Miss Bessie Robson, M.A., has been awarded the Silver Medal for Research offered by the "Alliance Francaise pour la propagation de la Langue Francaise."

### ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. Hermina J. Henderson (*First Prize and Medal*) ; obtained the Prize offered by His Excellency the French Minister of Public Instruction, and also the £5, 5s. Prize offered by the Association for the Better Endowment of the University ; 2. James Davidson ; 3. James Forgie.

FIRST-CLASS CERTIFICATES. — 4. Grace Fergie; 5. Marion H. Archibald; 6. Mary M'Callum; 7. James Donaldson; 8. Jane Crow; 9. Margaret Ross; 10. Alfred Davidson; 11. Isobel Trench; 12. Dora M'Murtrie; 13. Munro Mackay; 14. Samuel Hunter; 15. Georg. Robson; 16. Ella Macphail; 17. Isabella M. Towers; 18. May Barr; 19. Madge Robertson; 20. Maggie Drever; 21. May Swanston; 22. Margaret Kennedy.

SECOND-CLASS CERTIFICATES. — 23. L. Gordon Grant; 24. A. B. Forster; 25. Annie Murray; 26. Margaret F. S. Gilmour; 27. Mary Hall; 28. Julia Keith; 29. George V. Blackie; 30. Jessie E. Halden; 31. James Maxton; 32. David Soote; 33. Mary Dewar; 34. Ronald M'Kenzie Munro; 35. Alice Gilchrist; 36. Rob. Younger; 37. Eliz. Gray; 38. Mary Banks; 39. W. Allan.

CHAS. SAROLEA, Ph.D., D.Litt., *Lecturer.*

## GERMAN.

### HONOURS CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES. — 1. Margaret T. Spears, Scotland (*Medal and Edinburgh Goethe Society Prize*); 2. W. G. Jameson, Edinburgh, and Margaret D. Black, East Calder—equal.

FIRST-CLASS CERTIFICATES. — 4. Elizabeth F. Porter, Arbroath; 5. S. S. Anderson and Margaret A. M. Maclean, Muir of Ord—equal; 7. Agnes A. MacGregor, Scotland.

SECOND-CLASS CERTIFICATES. — 8. Elizabeth J. Ross, Scotland; 9. Hugh M. Miller and Matthys P. Rooseboom, Holland—equal; 11. Flora O'Riordan, England, and D. H. Low—equal.

### ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES. — 1. Louisa Watson, Lanarkshire (*Medal and Prize offered by Association for Better Endowment of Edinburgh University*); 2. Grace Fergie, Scotland; 3. Evel. Maclaren, Scotland.

FIRST-CLASS CERTIFICATES. — 4. Barbara R. A. Brown, Dalkeith; 5. Dora Smith, London; 6. Edith R. Riach, Calcutta, and Margaret K. Ross, Perth—equal; 8. Margaret F. Gilmour, Scotland, and Margaret Kennedy, Scotland—equal; 10. Jane Crow, Scotland, and Hilda L. Cleland, Kirkcudbright—equal; 12. Arthur W. Madsen, Scotland, and Helen Andw. Hunter, Broughty Ferry—equal; 14. Mary Black, East Calder; 15. Margaret Sibbald, Scotland, and Mabel Strathearn, Edinburgh—equal; 17. Jane M'C. Beattie, Renfrewshire, and Annie R. Murray, Scotland—equal; 19. Fred. Whyte, Edinburgh; 20. Joanna E. Levack, Scotland.

SECOND-CLASS CERTIFICATES. — 21. Mab. H. Smith, Scotland; Wm.

476 *Faculty of Arts—Class Prize and Honours Lists.*

M. P. Henderson, Scotland ; Annabella Miller, Edinburgh ; A. B. Forster, Darlington, and James Donaldson, Dalkeith—equal.  
OTTO SCHLAPP, Ph.D., *Lecturer.*

SENIOR SANSKRIT.

CLASS MEDAL AND FIRST-CLASS CERTIFICATE OF MERIT.—Ganesh Sadashiva Bhate, Poona, India.

SENIOR SANSKRIT.

FIRST-CLASS CERTIFICATE OF MERIT.—Joseph Hardie Cattanach, M.A., Edinburgh.

J. EGGELING, Ph.D., *Professor.*

CELTIC LANGUAGES AND LITERATURE.

CELTIC CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. Alexander Sutherland, Brora (*Medallist*) ; 2. William Sutherland, Latheron ; 3. Kenneth Cameron, Culloden.

ADVANCED CELTIC CLASS.

1. Alexander Sutherland, Brora (*Medallist*) ; 2. William Sutherland, Latheron ; 3. Kenneth Cameron, Culloden.

SPECIAL PRIZES.—£10, 10s. given by the Highland Society of London—Alexander Sutherland, Brora. Book Prizes, given by John Mackay, Esq., Hereford—William Sutherland, Kenneth Cameron.

DON. MACKINNON, M.A., *Professor.*

LOGIC AND METAPHYSICS.

ADVANCED CLASS.

FIRST-CLASS CERTIFICATES.—1. G. G. Campbell, Inverness ; William Corkey, Londonderry ; and Alexander Duthie, Montrose—equal (*Bruce of Grangehill and Falkland Prize and Medals*). Special Prize—G. A. Smillie, Philpstoun,

SECOND-CLASS CERTIFICATE.—John M<sup>r</sup>Laren, Callander.

ORDINARY CLASS.

FIRST-CLASS CERTIFICATES.—1. C. M. Aitchison, Falkirk ; 2. A. F. Giles, Edinburgh, and Gilbert Watson, Edinburgh—equal (*Medals*) ; 4. G. G. R. Brebner, Bloemfontein ; David Malcolm, Perth ; and C. L. Riach, Edinburgh—equal ; 7. William Johnstone, Cromarty, and Alexander Robertson, Edinburgh—equal ; 9. J. S. Wilson, Edinburgh ; 10. G. F. Barbour, Pitlochry,



and J. M. Robertson, Edinburgh—equal; 12. John Morrison, Tranent; 13. Charlotte E. Couling, China; John Paterson, Ayr; Janet R. Thomson, Whitburn; and G. L. Turnbull, Edinburgh—equal (prizes); 17. M. MacLagan-Wedderburn, Madderty; D. H. Wares, Wick; and William Scott, Leith—equal; 20. James Jackson, Ayr, and George Kitchin, Edinburgh equal; 22. Annie R. Ogilvie, Forfar, and R. W. Rae, Lockerbie—equal; 24. J. I. Macpherson, Newtonmore, and Jessie H. Purdie, Innerwick—equal; 26. Elizabeth M. Gray, Lasswade; H. H. Craw, Chirnside; and Mary C. MacCullum, Taynult—equal.

SECOND-CLASS CERTIFICATES.—Harriet Cowe, Penicuik; A. M. Duncansen, Kilmarnock; D. M. Joss, Edinburgh; Jane Anderson, Orkney; T. M. Finlay, Shetland; Mackenzie Douglas, Edinburgh; T. T. Alexander, Penicuik; Beatrice S. B. M'Murtrie, Edinburgh; T. H. Heddle, Stromness; John Bell, Thornton; Kenneth Edward, Dundee; Elizabeth R. Gibson, Edinburgh; P. G. Brown, Aberdour; J. S. Haig, Tranent.

A. S. PRINGLE PATTISON, LL.D., *Professor*.

## MORAL PHILOSOPHY.

### HONOURS CLASS.

FIRST-CLASS CERTIFICATES AND PRIZES.—1. George A. Smillie, Philpstoun (*Medal*); 2. George G. Campbell, Inverness; 3. Alexander Duthie, Edinburgh.

SECOND-CLASS CERTIFICATES.—4. Duncan MacDiarmid, Callander; 5. John M'Laren, Callander.

### ORDINARY CLASS.

FIRST-CLASS CERTIFICATES AND PRIZES.—1. John Handyside, Edinburgh, and David H. Hislop, Edinburgh—equal (*Medals*); 3. Lizzie B. Murray, Edinburgh (*Elizabeth Hamilton Prize*); 4. Charlotte E. Couling, China, and Mary S. Govan, Stirling—equal; 6. Daniel Johnstone, Cromarty; Harriet S. Nisbet, Edinburgh; and Elizabeth Smith, Aberdeen—equal.

SECOND-CLASS CERTIFICATES.—9. Madeline G. Edgar, Edinburgh; 10. Cathie F. Lee, Nairn; 11. Elizabeth M. Gray, Lasswade; 12. Margaret Sibbald, Dundee; 13. Edith R. Riach, Calcutta; 14. Charles L. Hunter, St Boswells, and Mary H. Lawson, Edinburgh—equal; 16. James Ian Macpherson, M.A., Newtonmore; 17. A. R. K. Paton, Ayrshire; 18. George G. M'Quillen, Lochgelly.

SPECIAL READING IN ARISTOTLE.—John Handyside and David H. Hislop—equal (*Prizes*).

JAMES SETH, M.A., *Professor*.

## COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

### HONOURS CLASS.

PRIZES.—1. William H. Nelson, Rosewell (*Medal*); 2. John M. Hendrie, M.A., Dumfries.

FIRST-CLASS CERTIFICATES.—3. Ernest Shearer, M.A., Orkney; 4. G. Turner Ford, M.A., Portobello.

### ORDINARY CLASS.

PRIZES.—1. Herbert Marsh, Edinburgh (*Medal and Merchant Company's Prize of £10, 10s.*); 2. Jane Anderson, Orkney (*George Watson's Prize*); 3. James L. M'Callum, Cumberland (*Daniel Stewart's Prize*); 4. William Pryde, M.A., Edinburgh; 5. Agnes J. Monteath, Edinburgh, and George A. Waters, Thurso—equal; 7. John M. Duthie, Orkney, and Daniel Johnstone, Cromarty—equal.

FIRST-CLASS CERTIFICATES.—9. Hugh M. Cowan, Paisley; 10. Charles L. Philip, New Galloway; 11. J. E. Dean, Bradford; 12. Charles P. Grant, Lochinver; 13. T. R. Gardiner, Cork; 14. Samuel Hunter, Waterford; 15. W. G. Russell, Lockerbie; 16. E. W. Greenlaw, Greenock; 17. William M. Doull, Thurso; 18. A. H. Bell, Edinburgh; 19. E. H. Lamb, Cumberland, and George D. Walker, Edinburgh—equal; 21. J. W. S. Davidson, Edinburgh, and John Steele, Edinburgh—equal; 23. J. C. H. Macnair, Edinburgh; 24. H. Victor Rabagliati, Yorkshire; 25. H. C. Lamb, Scotland; 26. John W. Sinton, Dalmeny.

ESSAYS.—H. M. Cowan (*Prize*); James Scott, Morayshire (*Prize for One Essay*).

HONOURABLE MENTION.—J. L. M'Callum, E. H. Lamb, C. L. Philip, Samuel Hunter, W. S. Stein, H. Marsh, John Macgregor, Agnes J. Monteath, E. W. Greenlaw.

J. SHIELD NICHOLSON, D.Sc., *Professor.*

## THEORY, HISTORY, AND ART OF EDUCATION.

FIRST-CLASS CERTIFICATES AND MEDALS.—1. John G. Sutherland, M.A.; 2. Mary E. M. Clark, M.A.

FIRST-CLASS CERTIFICATES.—3. Catherine R. Cameron and Jane M. Sim, M.A.—equal; 5. Donald J. Miller; 6. G. Grant M'Kerron, M.A.; 7. Elizabeth R. Gibson and Annie S. M'Kay—equal; 9. Amy Kemp; 10. Isobel Trench; 11. Elizabeth K. Herd; 12. Jeanie B. Smith and James S. M'Kay—equal; 14. Alexander Buchan; 15. John M. Duthie; 16. Annie R. Ogilvie; 17. Donald Doull; 18. Mary F. Hartley; 19. Mary S. Govan and Kate H. Smeaton—equal; 21. Minnie Moore; 22. Isabella Deas; 23. Isabella Orr; 24. May O. Swanston; 25. William Borthwick;

26. Margaret Ewan; Jessie B. T. Weir and Mary Fullarton—equal; 29. Margaret Adamson, George Kitchen, Elizabeth Smith, and Robert M. Weir—equal; 33. Georgina M'Kay; 34. John R. Hughes; 35. Elizabeth A. Fraser and Margaret Walker—equal; 37. George Hamilton, Colin M. Morrison, Mary S. Robertson, David Stark, and Robert Wood—equal.

S. S. LAURIE, LL.D., *Professor.*

## MATHEMATICS.

### ADVANCED HONOURS CLASS.

FIRST-CLASS CERTIFICATES.—1. J. Anderson, Eskbank (*Prize and Medal*); \*A. Gray, Lochee; \*G. Philip, Ross-shire; \*E. B. Ross, Edinburgh; F. Ross, Coupar-Angus.

SECOND-CLASS CERTIFICATES.—G. A. Carse, Edinburgh; J. D. Fulton, Edinburgh; \*W. Gentle, Edinburgh; G. W. Jones, Dundee; J. H. MacLagan-Wedderburn, Forfar; A. J. Ritch, Orkney; A. J. Ross, Edinburgh; P. Ross, Thurso; W. Scott, Edinburgh.

### INTERMEDIATE HONOURS CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. J. B. Frith, Staffordshire (*Medal*); 2. A. King, Mid-Lothian; 3. A. S. Ogilvie, Broughty Ferry (*Prizes*); A. H. Gardner, Edinburgh; P. D. Innes, Perth; H. G. R. Leonard, India.

SECOND-CLASS CERTIFICATES.—Miss M. Adamson, Edinburgh; D. Bain, Edinburgh; J. Black, Mid-Lothian; P. Connell, Kirkcaldy; H. H. Graw, Berwickshire; G. S. Duncan, Edinburgh; J. Gunn, Edinburgh; J. T. Johnstone, Edinburgh; W. S. Millar, Edinburgh; A. D. Stewart, Blairgowrie.

### SENIOR CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. W. Carter, Berwick-on-Tweed (*Medal*); 2. B. Frith, Staffordshire; J. B. Marshall, Perth; A. J. Merriles, Edinburgh—equal; 5. D. R. Matheson, India; 6. A. Gibson, Edinburgh; 7. R. T. Monteith, Abernethy; 8. J. Dunbar, Dundee; J. Morrison, Tranent—equal; 10. Miss B. R. A. Brown, Edinburgh; 11. Miss M. Black, East Calder; 12. E. MacLagan-Wedderburn, Forfar; 13. Miss H. L. Cleland, Kirkcudbright; 14. F. M. Philip, New Galloway.

SECOND-CLASS CERTIFICATES.—C. H. Abbott, Bradford; A. F. Anderson, Falkirk; B. B. Bruce, Thurso; R. Campbell, Fordoun; Miss A. L. Catto, Edinburgh; D. Doull, Wick; W. Eadie, Larbert; G. A. Easson, Coupar-Angus; W. T. Gordon, Govan; J. Jackson, Ayr; J. C. Johnston, Wick; J. Mason, Berwickshire; H. B. Murdoch, Edinburgh; J. M. Robertson, Edinburgh; J. Somerville, Edinburgh; D. A. Stark, Falkirk;

\* Attending the Class for the second time, and not eligible for Prizes.

Miss M. Thom, Edinburgh; Miss J. R. Thomson, Whitburn;  
Miss C. J. Wallace, Edinburgh.  
The Newton Bursary in Mathematics has been awarded to A. Gibson.  
Edinburgh.

#### JUNIOR CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. A. B. Forster, Darlington (*Medal*); 2. G. Laidlaw, Ecclefechan; 3. Miss J. E. Cameron, Malmesbury, Wilts.

SECOND-CLASS CERTIFICATES.—J. Anderson, Edinburgh; Miss J. Gilchrist, Anstruther; A. M. Heron, Portobello; Miss M. B. Inglis, Selkirk; Miss A. W. Mathieson, Thornhill, Dumfries; W. G. R. Paterson, Dumfries; A. H. Salmond, Arbroath; T. G. Wilson, Edinburgh.

The Kelland Prize, open to members of the Junior Class of the previous winter session, has been awarded to H. Ireland, Forfar.

G. CHRYSTAL, LL.D., *Professor.*

#### NATURAL PHILOSOPHY.

##### ADVANCED HONOURS CLASS.

FIRST-CLASS CERTIFICATES.—1. \*W. Gentle, Dundee; 2. G. A. Carse, Scotland (*Medal and Prize*); 3. A. Gray, Dundee (*Prize*); 4. \*G. Philip, Tarbat, Ross-shire; 5. \*E. B. Ross, Scotland.

SECOND-CLASS CERTIFICATES.—6. \*Alice B. Lennie, Edinburgh; 7. W. Scott, Scotland.

##### ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. G. W. Scarth, Scotland; 2. A. J. Merriles, Scotland; 3. T. Oliver, Cavers, Hawick (*Medallists*); 4. A. Downie, Scotland; 5. J. Dunbar, Scotland; E. MacLagan-Wedderburn, Forfar; J. C. H. Macnair, Isle of Man; J. B. Marshall, Perth; and D. R. Matheson, India—equal; 10. Miss E. K. Herd, Scotland; 11. J. Paterson, Ayr; 12. A. K. Duncan, Tranent; 13. K. M'Mutrie, England; J. Mason, Bunkle, Edrom; and Miss D. Snell, Scotland—equal.

SECOND-CLASS CERTIFICATES.—16. A. Gray, Edinburgh; 17. J. Morrison, Scotland; 18. W. Scott, Scotland; 19. J. P. Lowson, Belfast; 20. J. M. Duthie, Scotland; 21. W. T. Gordon, Govan; 22. A. F. Anderson, Falkirk; W. S. B. Brown, Mid-Calder; G. A. Easson, Coupar-Angus; A. B. Hardy, England; J. Munro, Thurso; H. B. Murdoch, Scotland; Miss B. Nisbet, Scotland; W. O. Sclater, Orkney; R. B. Thomson, Scotland; and Miss J. B. T. Weir, Scotland—equal; 32. C. H. Abbott, Bradford, and P. G. Brown, Scotland—equal; 34. A. H. Cuthbert, Scotland; G. Dunn, Scotland; R. M'Intosh, Edinburgh; Miss I. F. R. M'Kenzie, India; R. Small, Scotland; and H. N. Wylie, Edin-

\* Attending a second time.

burgh—equal ; 40. D. Stewart, Inverness ; 41. J. M. Bain, Scotland ; R. Campbell, Fordoun ; M. Douglas, Najpur, India ; and R. M'Lean, Alloa—equal ; 45. A. Mackay, Scotland ; 46. W. Crawford, Scotland ; and R. W. Rae, Templand, Lockerbie—equal ; 48. A. D. Anderson, Ceylon ; E. W. Greenlaw, Greenock ; H. W. Meikle, Edinburgh ; Alexander Robertson, Edinburgh ; and E. H. Wishart, Dundee—equal ; 53. J. K. Arklay, Dundee ; A. M. Duncanson, Kilmarnock ; L. Hamilton, Scotland ; T. S. M'Intosh, Scotland ; M. Maclagan-Wedderburn, Scotland ; and E. A. Miller, London—equal.

The Newton Bursary is awarded to Thomas Oliver.

#### PHYSICAL LABORATORY.

NEIL ARNOTT SCHOLARSHIP.—E. Maclagan-Wedderburn.

DONALD FRASER BURSARY.—P. D. Innes.

HIGHLY COMMENDED.—W. Eadie, P. D. Innes, H. G. R. Leonards, T. Oliver, S. Simpson—Summer 1901 ; C. H. Abbot, D. Doull, J. Dunbar, G. Dunn, H. Jamieson, C. N. Kemp, Miss J. B. Lindsay, J. Mason, D. R. Matheson, H. B. Murdoch, R. M'Intosh, E. Maclagan-Wedderburn, J. C. H. Macnair—Winter, 1901-2.

J. G. MACGREGOR, LL.D., *Professor*.

#### INTERMEDIATE HONOURS CLASS.

FIRST-CLASS CERTIFICATES.—1. John Anderson, Scotland ; A. H. Gardner, Edinburgh—equal (*Medals and Prizes*) ; \*A. J. Ritch, Scotland ; 3. J. H. Maclagan-Wedderburn, Scotland.

SECOND-CLASS CERTIFICATES.—4. J. D. Fulton, Edinburgh ; \*G. A. Carse, Scotland ; \*W. N. Prophet, Scotland ; \*G. W. Jones, Scotland ; \*T. S. Lindsay, Scotland ; \*Peter Ross, Thurso ; 5. Margaret Adamson, Leith ; 6. James Black, Scotland.

C. G. KNOTT, D.Sc., *Lecturer*.

#### BRITISH CONSTITUTIONAL HISTORY.

##### HONOURS CLASS.

1. John Frater Robertson ; 2. Peter M. Curle and George A. Waters—equal (*Prizemen*).

HONOURABLE MENTION FOR ESSAYS—George S. C. Stevenson (*Prizeman*).

J. KIRKPATRICK, LL.D., *Professor*.

##### HISTORY.

##### HONOURS CLASS.

MEDAL, PRIZE, AND FIRST-CLASS CERTIFICATE.—1. Ellen S. Paterson.

SECOND-CLASS CERTIFICATES.—2. G. M. Harper ; 3. E. M. Barron.

\* Attending a second time

ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. Neil Forbes Grant (*Medal*); 2. John L. Geddie; 3. James Munro; 4. D. G. Robertson; 5. John F. Robertson; 6. Jane Ness Lowson; 7. Lennox F. Robertson; 8. A. Howison; 9. Catherine R. Borland; 10. Alice Alexandra Simpson.

SECOND-CLASS CERTIFICATES.—11. Margaret J. Ewan; 12. J. E. Dean; 13. J. A. A. Baker; 14. Mary E. Watson.

R. LODGE, M.A., *Professor*.

ANCIENT (SCOTTISH) HISTORY.

HONOURS CLASS.

1. Alan O. Anderson (*Prize*.)

PALÆOGRAPHY.

HONOURS CLASS.

1. Alan O. Anderson (*Prize*).

P. HUME BROWN, M.A., LL.D., *Professor*.

MODERN (EUROPEAN) HISTORY—1715-1848.

FIRST-CLASS CERTIFICATES.—1. H. M. Cowan, M.A., Paisley, and G. M. Harper, India—equal (*Medals and Prizes*); 3. J. L. M'Callum, Cumberland.

SECOND-CLASS CERTIFICATES.—4. J. S. Allison, M.A., Edinburgh; 5. J. M'K. Hendrie, M.A., Dumfries; 6. A. J. Sturrock, M.A., Edinburgh; 7. G. T. Ford, M.A., Portobello.

HONOURABLE MENTION FOR ESSAY—W. H. Nelson, Rosewell.

D. P. HEATLEY, *Lecturer*.

FINE ART.

CLASSICAL ARCHÆOLOGY—HONOURS COURSE.

FIRST-CLASS CERTIFICATE.—David Lees.

HISTORY IN MONUMENTS—HONOURS COURSE.

FIRST-CLASS CERTIFICATE.—E. J. MacRae.

GRADUATION COURSE.

FIRST-CLASS CERTIFICATES.—Agnes J. Monteath (*Medal and First-Class Prize*); John Alexander (*Cousin Prize for Essays and Second-Class Prize*); John M. Miller and Edwin Ward (*Third-Class Prizes*).

G. BALDWIN BROWN, M.A., *Professor*.



## Faculty of Science.

SUMMER SESSION, 1901.

### STRUCTURAL AND FIELD GEOLOGY.

1. Malcolm H. Graham, England, and Alex. Waugh Young, England—equal (*Medallists*); 3. Thomas Oliver, Scotland, and G. C. Muirhead, Scotland—equal; 5. Alex. J. D. Lothian, Scotland; 6. S. Couling, England; 7. Thomas Hutton Heddle, England; 8. James Scott, Scotland; 9. Gulielma F. S. Peterson, Scotland; 10. Samuel Simpson, England; 11. H. G. Sutherland, Scotland; 12. Sam. Rattray, Scotland.

JAMES GEIKIE, D.C.L., LL.D., F.R.S., *Professor*.

### PETROLOGY.

1. Arch. Milne, M.A., Edinburgh (*Medallist*); 2. Alice B. Lennie, M.A., Trinity; 3. R. Hamilton, M.A., Dumfries; 4. W. A. K. Christie, Edinburgh; 5. J. B. Roger, M.A., Forfar; 6. W. T. Rogers, Dundee; 7. W. A. Forsyth, M.A., Edinburgh, and J. S. Martyn, B.A., Madras—equal; 9. T. Oliver, Edinburgh.

J. D. FALCONER, M.A., B.Sc., *Lecturer*.

### MINERALOGY AND CRYSTALLOGRAPHY.

1. William T. Rogers, Dundee (*Medallist*); 2. James Scott, Edinburgh; 3. George S. Duncan, Darlington; 4. James Chalmers, Edinburgh.

HUGH MARSHALL, D.Sc., *Lecturer*.

### PRACTICAL ASTRONOMY.

HONOURS CERTIFICATES.—E. M. Anderson, Scotland; W. R. Bruce, Scotland; G. S. Duncan, Scotland.

RALPH COPELAND, Ph.D., *Professor*.

### ENGINEERING FIELD WORK.

- HONOURS CERTIFICATES.—1. A Richardson (*Medal and Prize*); 2. J. A. A. Morrison; 3. J. Firth; 4. C. T. Walker; 5. W. I. Colebatch; 6. T. Grieve; 7. C. Innes; 8. D. S. Rabagliati; 9. A. Kerr; 10. C. H. Falconer and F. Smith—equal; 12. C. C. F. Mackenzie and J. E. Newlands—equal; 14. S. Simpson.

T. HUDSON BEARE, B.A., B.Sc., *Professor*.

### ADVANCED PUBLIC HEALTH.

1. John Crawford, M.B., C.M. (*Medallist*); 2. Duncan Forbes, M.B., Ch.B.; 3. John B. Buist, M.D.; 4. M. Baket, M.B., C.M., and Samuel Rattray, M.B., Ch.B.—equal.

C. HUNTER STEWART, M.B., D.Sc., *Professor*.

WINTER SESSION, 1901-1902.

ASTRONOMY.

1. A. S. Ogilvie, Scotland (*Medallist*); 2. E. B. Ross, Scotland; 3. A. King, Scotland; 4. W. T. Rogers, Scotland; 5. W. A. K. Christie, Scotland; 6. F. Ross, Scotland; 7. A. J. Ross, Scotland; 8. J. B. Rodger, M.A., Scotland.

The RAMSAY MEMORIAL PRIZE has been awarded to A. S. Ogilvie and E. B. Ross. G. CLARK, M.A., *Pro-Professor*.

GEOLOGY AND MINERALOGY.

1. A. J. D. Lothian, Scotland (*Medallist*); 2. James Watson, Scotland; 3. Samuel Couling, London; 4. Robert Lees, Scotland; 5. J. Wood Nelson, Scotland; 6. James Scott, Scotland; 7. D. G. Robertson, Scotland, and John H. Melville, Scotland, equal; 9. Clerk Ranken, Scotland; 10. Mary S. Hall, Scotland, and W. D. Mackay, Scotland—equal; 12. Edward Blades, Scotland, and T. R. Gardiner, Ireland—equal; 14. Rodger Prosser, Wales; 15. J. Leslie M'Callum, England, and R. J. Ritchie, Scotland—equal; 17. James H. Balleny, Scotland; 18. J. C. Robertson, Scotland; 19. John Polson, Scotland; 20. H. G. K. Leonard, India; 21. H. M. Cowan, Scotland; 22. Lizzie B. Murray, Scotland.

JAMES GEIKIE, D.C.L., LL.D., *Professor*.

PRACTICAL GEOLOGY AND MINERALOGY.

1. James Watson, Scotland (*Medallist*); 2. William Geddie, Scotland; 3. Clerk Ranken, Scotland; 4. Edward Blades, Scotland; 5. D. G. Robertson, Scotland; 6. N. D. Mackay, Scotland; 7. James Scott, Scotland; 8. J. L. M'Callum, England; 9. T. R. Gardiner, Ireland, and H. G. K. Leonard, India—equal; 10. Donald Robertson, Scotland, and John M'Dowall, Scotland—equal.

J. D. FALCONER, M.A., B.Sc., *Demonstrator*.

JAMES GEIKIE, D.C.L., LL.D., *Professor*.

PLANT PHYSIOLOGY.

1. David G. Mitchell, B.Sc. (*Medallist*); 2. Robert B. Young; 3. James T. Gibson. A. W. BORTHWICK, B.Sc., *Lecturer*.

ENGINEERING.

SENIOR DIVISION.

PRIZES AND FIRST-CLASS CERTIFICATES.—1. A. Richardson, Scotland, and A. Wilson, Scotland—equal (*Medal and 1st Prize*); 3. H. N. Ogston, Scotland (*Prize*); 4. P. B. Glendinning, Scotland; 5. A. Kerr, Scotland.

SECOND-CLASS CERTIFICATES—6. H. Buchanan, Scotland.

JUNIOR DIVISION.

- PRIZES AND FIRST-CLASS CERTIFICATES.—1. J. A. A. Morrison, Kirkmichael, Perthshire (*Medal and 1st Prize*); 2. W. N. Bolam, Scotland; 3. A. D. Stewart, Scotland (*Prizes*); 4. J. E. Newlands, Scotland; 5. C. Innes, Scotland; 6. W. A. Tate, Jamaica; 7. T. Grieve, Scotland.
- SECOND-CLASS CERTIFICATES—8. J. Leslie, Scotland; 9. J. C. Meldrum, Mauritius.

SANITARY ENGINEERING.

- FIRST-CLASS CERTIFICATES.—J. B. Buist, M.D.; G. G. Hay, M.B.; S. Rattray, M.B.
- T. HUDSON BEARE, B.Sc., M.Inst. C.E., *Professor*.

ENGINEERING DRAWING.

SENIOR DIVISION.

- FIRST-CLASS CERTIFICATES AND PRIZES—1. A. Richardson, Scotland (*Medal and Prize*); 2. C. Innes, Scotland, and J. A. A. Morrison, Scotland—equal.

JUNIOR DIVISION.

- FIRST-CLASS CERTIFICATES AND PRIZES.—1. A. Gray, Scotland (*Medal and Prize*); 2. W. N. Bolam, Scotland; 3. J. C. Johnston, Scotland; 4. T. Oliver, Scotland.
- SECOND-CLASS CERTIFICATES.—5. T. Grieve, Scotland; 6. H. N. Wylie, Scotland; 7. J. E. Newlands, Scotland.
- W. HUME KERR, M.A., B.Sc., *Lecturer*.

AGRICULTURAL AND RURAL ECONOMY.

1. G. C. Muirhead, Fochabers; 2. John Stirton, Perthshire (*Medallists*); 3. Samuel Simpson, Whalley, Lancashire; 4. Thomas F. Mian, Edinburgh; 5. Charles C. Usher, Hawick; 6. H. E. Beveridge, Dunfermline; 7. C. C. Holmes, Omaru, New Zealand, and Alexander Mitchell, Gorebridge, Mid-Lothian—equal; 9. R. B. Drybrough, Edinburgh; 10. Robert Stewart, Strathtummel, and T. H. Menzies, Edinburgh—equal; 12. Oliver Carlyle, Edinburgh.
- STEVEN SCHOLARSHIP (about £75) awarded to Samuel Simpson.

AGRICULTURE—JUNIOR COURSE.

1. J. D. Shepherd, Uphall (*Medallist*).

COLONIAL LECTURES—GARTON COURSE.

1. John R. Dale, Scoughall, North Berwick (*Medallist*); 2. Charles C. Usher, Courthill, Hawick (*Prize*); 3. Fred Smith, 115 Brook Street, Macclesfield; 4. Robert Stewart, Strathtummel.

ROBERT WALLACE, *Professor*.

AGRICULTURAL CHEMISTRY.

George C. Muirhead (*Medallist*); Thomas F. Main; Colin C. Holmes.  
A. P. AITKEN, M.A., D.Sc., *Lecturer*.

AGRICULTURAL ENTOMOLOGY.

1. Fred Smith (*Medallist*); 2. G. C. Muirhead; 3. John R. Dale;  
4. Charles C. Usher; 5. Alexander Mitchell; 6. Thomas F. Main; 7. Robert Stewart.

W. FREAM, LL.D., B.Sc., *Lecturer*.

FORESTRY.

1. Fred Smith, Cheshire (*Medal and Prize*); 2. Frank Scott, Ayrshire;  
3. Alexander Mitchell, Gorebridge; 4. Wm. C. Mitchell, Perthshire.

FRED. BAILEY, *Lecturer*.

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*Faculty of Divinity.*

WINTER SESSION, 1901-1902.

DIVINITY.

THIRD YEAR.

PRIZEMEN.—1. Oswald B. Milligan, M.A.; 2. David Heggie, M.A.;  
3. William A. Mowat, M.A.

HONOURABLE MENTION.—David H. Sawers, M.A.

SECOND YEAR.

PRIZEMEN.—1. J. Bryce Jamieson, M.A.; 2. Adam Mackay, M.A.;  
3. George V. Dunnett, M.A.

FIRST YEAR.

PRIZEMEN.—1. Charles G. Taylor, M.A.; 2. Hamilton D. F. Dunnett, M.A.; 3. William Phin Gillieson, M.A.

HONOURABLE MENTION.—Charles Robertson, M.A.

R. FLINT, D.D., *Professor*.

BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

PRIZEMEN.—1. Oswald B. Milligan, M.A., Edinburgh (*Medallist*);  
2. J. Bryce Jamieson, M.A., Portobello, and George V. Dunnett, M.A., Kilmarnock—equal; 4. William A. Mowat, M.A., London;  
5. Adam Mackay, M.A., Forfar; 6. Andrew M. Anderson, M.A., Edinburgh.

*Faculty of Divinity—Class Prize and Honours Lists.* 487

HONOURABLE MENTION.—1. Macduff F. Simpson, M.A., Edrom ; 2. David H. Sawers, M.A., Edinburgh.

JOHN PATRICK, D.D., *Professor.*

ECCLESIASTICAL HISTORY.

PRIZEMEN.—1. William A. Mowat, M.A., London (*Medallist*) ; 2. Oswald B. Milligan, M.A., Edinburgh ; 3. Kenneth Cameron, M.A., Culloiden ; 4. Hamilton D. F. Dunnett, M.A., Kilmarnock ; 5. Charles W. G. Taylor, M.A., Edinburgh.

HONOURABLE MENTION.—David Hay Sawers, M.A., Edinburgh.

M. C. TAYLOR, D.D., *Professor.*

HEBREW AND SEMITIC LANGUAGES.

SENIOR HEBREW.

PRIZES AND FIRST-CLASS CERTIFICATES OF MERIT. — 1. Adam Mackay, M.A. (*Medallist*), Forfar ; 2. J. Bryce Jamieson, M.A., Portobello ; 3. F. J. Paul, M.A., Ireland.

SECOND-CLASS CERTIFICATES OF MERIT.—4. George Victor Dunnett, M.A., Kilmarnock ; 5. W. H. Allan, M.A., Edinburgh ; 6. John M'Murtrie, M.A., Edinburgh, and R. Johnstone, Moffat, B.A., Ireland—equal.

JUNIOR HEBREW.

PRIZES AND FIRST-CLASS CERTIFICATES OF MERIT.—1. Lockhart J. Campbell (Arts), Edinburgh (*Medallist*) ; 2. Hamilton D. F. Dunnett, M.A., Kilmarnock ; 3. W. Phin Gillieson, M.A., Olrig (Caithness).

SECOND-CLASS CERTIFICATES OF MERIT.—4. D. J. Tweedie, M.A., Fife ; 5. Charles L. Hunter (Arts), St Boswells ; 6. Charles Robertson, M.A., Scone ; 7. C. W. G. Taylor, M.A., Edinburgh.

ARABIC.

PRIZE AND FIRST-CLASS CERTIFICATE OF MERIT.—Macduff F. Simpson, M.A., Edrom.

SECOND-CLASS CERTIFICATE OF MERIT.—M. A. Samad, Hyderabad.

SYRIAC.

PRIZE AND FIRST-CLASS CERTIFICATE OF MERIT. — Macduff F. Simpson, M.A., Edrom.

SECOND-CLASS CERTIFICATE OF MERIT.—David C. Davidson, M.A., Edinburgh.

A. R. S. KENNEDY, D.D., *Professor.*

## Faculty of Law.

SUMMER SESSION, 1901.

### CIVIL LAW.

1. Alfred M. Laing, M.A., Aberdeen; 2. J. D. Little; 3. D. Kennedy (*Prizemen*); 4. W. Smith, M.A., Edinburgh; 5. Hardy Philip and A. D. E. Mathison—equal; 7. W. F. Maclagan.

The MUIRHEAD PRIZE for the highest distinction during the Winter and Summer Sessions was divided between A. M. Laing and J. D. Little.

JAMES MACKINTOSH, LL.D., *Professor.*

### SCOTS LAW CLASS.

1. Andrew Meikle, Mid-Lothian; 2. Alexander Y. Adam, England; 3. Charles Milne, M.A., Aberdeenshire; 4. John L. Jack, Caithness-shire; 5. Roger H. Leitch, Fifeshire (*Prizemen*); 6. Andrew H. Harley, Clackmannanshire; 7. John Charles Fenton, Mid-Lothian; 8. David Miller, Mid-Lothian; 9. John B. M'Donald, Forfarshire; 10. J. Smith Clark, Mid-Lothian; 11. William H. Meikle, M.A., Argyleshire; 12. Charles William Howden, Mid-Lothian, and George R. P. Douglas, Otago—equal; 14. A. S. Pringle, B.A., Cantab., Mid-Lothian; 15. George Turner, Fifeshire; 16. William Nicoll, Fifeshire; 17. Alexander Archibald Fraser; 18. John M'Michael, M.A., Perthshire; 19. Richard J. M'Dougall, Dumfriesshire.

*N.B.*—William H. Meikle was 14th in the winter session 1900-1901.

ESSAY PRIZES.—1. J. Smith Clark, Mid-Lothian; 2. Byrom S. Bramwell, B.A., Cantab., Northumberland.

JOHN RANKINE, K.C., M.A., LL.D., *Professor.*

### FORENSIC MEDICINE.

1. Henry L. F. Fraser, M.A. (*Medallist*); 2. James A. Cameron; 3. T. Gillespie and William H. Meikle—equal; 5. D. Oswald Dykes, Gilbert T. Gordon, J. F. Milne, M.A.; J. Y. Sutherland, W. Mitchell Thomson, and M. M'Neel Caird Urquhart; 11. A. S. Carnegie, Alexander Cormack, M.A.; John M. Mackay, M.A.; W. F. Maclagan, and A. Maitland—equal; 16. G. F. Deas, S. A. Gillon, and James A. D. Murdoch—equal.

HENRY D. LITTLEJOHN, Kt., M.D., *Professor.*

### INTERNATIONAL PRIVATE LAW.

1. Walter T. Watson, M.A.; 2. James Macdonald, M.A., Argyleshire (*Prizemen*); 3. J. S. Kinghorn, M.A., Edinburgh; 4. W. Mitchell Thomson, Edinburgh; 5. A. S. Pringle, Edinburgh; 6. Alfred M. Laing, M.A., Morayshire; 7. J. T. Carlyle Gifford, M.A.,



Edinburgh; 8. Charles Jamieson, M.A., Ayr; 9. James Williamson, Kirkcudbright; 10. B. S. Bramwell, B.A., Edinburgh.

N. J. D. KENNEDY, M.A., *Lecturer.*

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WINTER SESSION, 1901-1902.

PUBLIC LAW.

PRIZEMEN—1. W. Dunbar (*Thow scholar*), A. Stewart, and E. H. Wishart—equal; 4. B. S. Bramwell.

HONOURS.—5. D. Keith Cunnison; 6. J. B. Cameron and G. Grant M'Kerron—equal; 8. A. Hamilton Scott; 9. R. W. Lyall Grant; 10. J. M. Mackay; 11. A. M. Laing and D. Chapel; 13. A. Maitland; 14. Robert Falconer; 15. W. E. Macdonald,

ESSAY PRIZE.—B. S. Bramwell.

L. J. GRANT, Bart., B.A., *Professor.*

CIVIL LAW.

1. W. Dunbar, B.A. Oxon. (*Thow scholar*); 2. A. Stewart, M.A., Aberdeen; 3. W. H. Nelson (*Prizemen*); 4. R. J. Dykes and John Taylor, M.A., Aberdeen—equal; 6. J. G. Jamieson, B.A. Oxon., and J. F. Milne, M.A. Edin.—equal; 8. W. S. Clark and A. E. S. Thomson—equal; 10. D. K. Cunnison, M.A., Edin.; 11. J. Scobie and A. H. Scott—equal; 13. T. Yule; 14. P. B. Carment and A. J. Sturrock, M.A., Edin.—equal; 16. J. M'Caig and A. R. Simpson, B.A., Oxon.—equal.

JAMES MACKINTOSH, LL.D., *Professor.*

CONSTITUTIONAL LAW AND HISTORY.

1. John Frater Robertson; 2. W. Mitchell-Thomson, B.A., and John Taylor—equal (*Prizemen*); 4. Charles L. Riach and James Munro—equal; 6. Mary C. Jolly; 7. Catherine R. Borland; 8. Margaret C. Aitken, Neil F. Grant, and Alfred E. S. Thomson—equal; 11. John W. Walker; 12. W. Smith Clark.

HONOURABLE MENTION.—Alec D. Anderson, R. M. Scott, Samuel R. Simpson, Alex. Stuart, and Alex. White.

J. KIRKPATRICK, LL.D., *Professor.*

SCOTS LAW.

1. William Syme Colville, M.A., Argyllshire (*Thow scholar*); 2. Adam Brownlee, Selkirkshire; 3. Robert Jack Dykes, M.A., Kinrossshire; 4. Roger H. Leitch, Fifeshire; 5. William Scott Weir, Selkirkshire, and James Williamson, M.A., Kirkcudbright—equal; 7. William Angus, jun., Perthshire; 8. William Ross Garson, Mid-Lothian (*Prizemen*); 9. Charles Milne, M.A., Aberdeenshire; 10. Malcolm Graham Nicolson, Mid-Lothian; 11. E. W. Pater-

son, Dublin; 12. Alfred Martin Laing, M.A., Morayshire; 13. Robert J. Philip, M.A., Ayrshire; 14. Richard Gibson, Lanarkshire; 15. G. Charles Cunningham, Mid-Lothian; 16. William Thomson, Berwickshire; 17. James B. Lorimer, Mid-Lothian; 18. James M'Burnie, Dumfriesshire; 19. William E. S. Brebner, Mid-Lothian; 20. Archibald D. E. Mathison, Warwickshire; 21. John Alex. Purves, Roxburghshire.

JOHN RANKINE, K.C., M.A., LL.D., *Professor.*

#### CONVEYANCING.

1. A. Morrice Mackay, M.A., Aberdeenshire (*Thow scholar*); 2. Thomas J. Addly, Forfarshire; 3. Duncan Macnab Burden, M.A., Forfarshire; 4. Allan Ormiston Freer, Roxburghshire; 5. Arthur J. Rew, Forfarshire; 6. David Pinkerton Fleming, Lanarkshire; 7. James Macdonald, M.A., Argyllshire; 8. William R. Donald, Forfarshire (*Prizemen*); 9. Andrew Meikle, Midlothian; 10. J. B. M'Donald, Forfarshire; 11. W. R. Halliday, Mid-Lothian; 12. George Worrall, Forfarshire; 13. Alex. Y. Adam, Northumberland; 14. J. Stafford Kinghorn, Dumbartonshire; 15. John Irving Moffat, Dumfriesshire; 16. George R. P. Douglas, New Zealand, and T. A. Menzies, Yorkshire—equal; 18. William H. Meikle, Argyllshire; 19. M. Millar Craig, Mid-Lothian, and Andrew H. Harley, Clackmannanshire—equal; 21. Robert T. Millar, Selkirkshire; 22. John Brooks, Mid-Lothian; 23. John Sommerville, Mid-Lothian; 24. Charles W. Howden, Mid-Lothian; 25. George Turner, Fifeshire; 26. W. A. Fleming, Mid-Lothian; 27. Byrom S. Bramwell, Northumberland; 28. Frederick James Ferguson, Renfrewshire; 29. Charles B. Ramsay, Forfarshire; 30. Andrew Scott Matheson, Forfarshire.

JOHN L. MOUNSEY, W.S., *Professor.*

#### PROCEDURE AND EVIDENCE.

1. Marshall Millar Craig, Scotland (*Prizeman*); 2. Allan O. Freer, Scotland; 3. Alexander Morrice Mackay, Scotland; 4. Henry L. F. Fraser, Ceylon; 5. John Charles Fenton, Scotland; 6. James Macdonald, Scotland.

W. M. GLOAG, B.A., *Lecturer.*

### *Faculty of Medicine.*

SUMMER SESSION, 1901.

#### ELEMENTARY BOTANY.

- FIRST-CLASS HONOURS.—1. William M. Scott, Ruthwell; 2. William Geddie, Edinburgh; 3. A. M. Drennan, Helensburgh; 4. S. G. Corner, Inverness; 5. Thomas Davidson, Scotland (*Medallists*);

6. Sydney T. Champaloup, Auckland, New Zealand, and James M. Dickson, Scotland—equal; 8. Alexander D. Stewart, Scotland; Edward Thompstone, England; and James Young, Edinburgh—equal; 11. Jas. T. Gibson, Scotland; 12. David M. Mathieson, M.A., Scotland, and J. Z. H. Rousseau, Cape Colony—equal; 14. Chas. E. Blair, Ireland, and Murdo Maclean, Scotland—equal; 16. Duncan M'F. Barker, Scotland; Herbert Brown, South Africa; Alan MacDonald Dick, England; Samuel S. Dykes, Scotland; and J. Norman M'Turk, Bradford, Yorks—equal; 21. George C. Muirhead, Scotland, and Donald Robertson, Scotland—equal.

SECOND-CLASS HONOURS.—23. A. Cecil Alport, Cape Colony; Mark Stewart Fraser, Scotland; William Gemmill, Scotland; and Philip Vickerman, New Zealand—equal; 27. Robert S. Frew, Newfoundland; Kenneth W. Mackenzie, India; Archibald I. Miller, Ceylon; and Arthur A. Olivierre, Trinidad—equal; 31. George S. Banks, Scotland; William Joseph Maloney, Edinburgh; and Roger St Clair Steuart, Stony Creek, New Zealand—equal; 34. William M. Hewetson, England, and Robert Patrick M'Morland, Scotland—equal; 36. Henry S. A. Hogg, Scotland, and W. G. Robertson, Scotland—equal; 38. Edward James Black, Edinburgh; 39. Solomon Kark, Cape Colony; W. J. Macnab, Scotland, and Harold Mowat, Scotland—equal; 42. W. E. Rees Williams, Dominica; R. B. Thomson, Scotland; and Hugh C. Wilson, Scotland—equal; 45. Francis W. Cragg, England; Pericles N. Joannides, Egypt; John Mathewson, Scotland; and George Raffan, Australia—equal; 49. John R. Holgate, England, and John Ritchie, Scotland—equal; 51. M. M. Baird, Scotland, and James A. Loughridge, Ireland—equal; 53. J. Spencer Daniell, New Zealand; T. S. M'Intosh, Scotland; Alexander H. M. Maxwell, Australia; and Arthur J. R. O'Brien, Coalbrookdale, England—equal; 57. David G. Gray, Ireland; Edward S. Massiah, Br. Guiana; and Leslie D. Stephen, Scotland—equal; 60. Frank Stuart Cumming, Scotland; William P. Ferguson, Edinburgh; Peter M'Dermid, Scotland; and G. Raubenheimer, Cape Colony—equal; 64. Douglas P. Blair, Scotland; L. P. M. Gardner, Scotland; James C. Holm, Scotland; and Stewart M'Naughton, Stockton-on-Tees—equal; 68. G. Y. Richardson, Stirling, and Edward Valenzia, Malta—equal; 70. Edward Hamilton Black, England; John A. Harley, England; Alfred S. Hendrie, Scotland; and A. C. B. M'Murtrie, Scotland—equal.

For HERBARIUM OF PLANTS collected at the Class Excursions during Summer Session 1900.

1. John Trotter (*Prize*); 2. Alexander Lyall Pearson (*Prize*);
3. Joseph Ings (*Prize*).

# ELEMENTARY PRACTICAL BOTANY.

## CLASS A.

FIRST-CLASS HONOURS.—1. John A. Harley, England; 2. William M. Scott, Ruthwell (*Medallists*); 3. A. M. Drennan, Helensburgh, and William Geddie, Edinburgh—equal; 5. Mark Stewart Fraser, Scotland; 6. Edward Valenzia, Malta, and Alexander S. Paterson, Scotland—equal; 8. Samuel S. Dykes, Scotland; 9. J. Z. H. Rousseau, Cape Colony; Graham Robertson, Scotland; and George Raffan, Australia—equal.

SECOND-CLASS HONOURS.—12. James Lindsay, Edinburgh; 13. Pericles N. Joannides, Egypt; Archibald I. Miller, Ceylon; and Arthur J. R. O'Brien, England—equal; 16. James M. Dickson, Scotland, and A. C. B. M'Murtrie, Scotland—equal; 18. David C. Alexander, Scotland, and Henry S. A. Hogg, Scotland—equal; 20. A. Cecil Alport, Cape Colony, and S. G. Corner, Scotland—equal; 22. Alexander M'Donald, Scotland; R. P. M'Morland, Scotland; and T. H. Scott, Selkirk—equal; 25. S. Kark, Cape Colony; John Mathewson, Scotland; and Peter M'Dermid, Scotland—equal; 28. Alexander H. M. Maxwell, Australia; R. B. Thomson, Scotland; and W. G. Robertson, Scotland—equal.

## CLASS B.

FIRST-CLASS HONOURS.—1. James Young, Edinburgh; 2. Alexander D. Stewart, Scotland (*Medallists*); 3. Duncan M'F. Barker, Scotland; 4. George C. Muirhead, Scotland; 5. Thomas Davidson, Scotland, and James C. Holm, Scotland—equal; 7. Herbert Brown, South Africa; 8. Sydney T. Champtaloup, New Zealand, and Robert H. Walton, Wales—equal; 10. William Gemmill, Scotland; Harold E. Rawlence, England; and Edward Thompson, England—equal; 13. James T. Gibson, Scotland.

SECOND-CLASS HONOURS.—14. Edward Hamilton Black, England; Alexander Mathieson, Scotland; and Philip Vickerman, New Zealand—equal; 17. H. M. Cargin, Ireland; and Richard Davidson, Scotland—equal; 19. Robert S. Frew, Newfoundland; James A. Loughridge, Ireland; and J. Spencer Daniell, New Zealand—equal; 22. W. E. Rees Williams, Dominica; Robert M. Robb, Scotland; and John Frederick Gallagher, Ireland—equal; 25. Thomas Fraser, Scotland; Murdo Maclean, Scotland; and David G. Gray, Ireland—equal; 28. E. B. Munro, India; George M'Mullan, Ireland; and M. M. Baird, Scotland—equal.

FOR DRAWINGS, ILLUSTRATING WORK DONE DURING THE SESSION.

FIRST-CLASS HONOURS.—1. Alexander D. Stewart, Scotland; 2. David M. Mathieson, M.A., Scotland, and Alex. S. Paterson, Scotland—equal; 4. E. Hamilton Black, England, and I. D.

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Campbell Duncan, New Zealand—equal; 6. Donald Robertson, Scotland; 7. T. Graham Brown, Scotland (*Prizes*); 8. Duncan M<sup>c</sup>F. Barker, Scotland, and Robert H. Walton, Wales—equal; 10. Thomas Fraser, Scotland; 11. Robert S. Frew, Newfoundland; James A. Loughridge, Ireland; John Ritchie, Scotland; and Thomas H. Scott, Scotland—equal.

SECOND-CLASS HONOURS.—15. John Gilmour, Scotland, and George Raffan, Australia—equal; 17. M. M. Baird, Scotland; Chas. E. Blair, Ireland; and John Frederick Gallagher, Ireland—equal; 20. W. J. Geale, Ireland, and Philip Vickerman, New Zealand—equal; 22. Howard H. Christie, New Zealand; R. Baring Davidson, England; Stanley W. Hogg, New South Wales; and R. H. Marshall, England—equal.

FOR MICROSCOPIC PREPARATIONS MADE DURING THE SESSION.

FIRST-CLASS HONOURS.—1. A. M. Drennan, Helensburgh; 2. Sydney T. Champtaloup, New Zealand (*Prizes*).

ISAAC BAYLEY BALFOUR, M.D., D.Sc., *Professor*.

ELEMENTARY ZOOLOGY.

FIRST-CLASS HONOURS.—1. J. P. Lowson; 2. A. M. Drennan; 3. C. Carter and R. B. Thomson—equal (*Medallists*); 5. T. Davidson and A. L. Peatson—equal; 7. H. Brown; 8. J. C. Holm; 9. D. M. F. Barker.

SECOND-CLASS HONOURS.—10. A. S. Hendrie; 11. J. Young; 12. W. M. Scott; 13. E. H. Black and K. W. Mackenzie—equal; 15. S. Kark; 16. E. R. Williams; 17. G. Banks and E. B. Munro—equal; 19. A. D. Stewart; 20. F. W. Cragg; 21. G. F. Grogan and W. M. Hewetson—equal; 23. R. S. Frew; F. H. S. Gardner, W. J. Maloney, and W. J. M<sup>c</sup>Nab—equal; 27. H. S. A. Hogg and R. E. Moyes—equal; 29. J. Chalmers; 30. S. S. Dykes and J. R. Holgate—equal; 32. L. P. M. Gardner and G. S. M<sup>c</sup>Intosh—equal; 34. J. A. Loughridge; 35. W. Gemmill; 36. J. N. M<sup>c</sup>Turk; 37. H. C. Johnston and H. S. Rawlence—equal; 39. A. H. M. Maxwell; 40. W. I. Martyn Clark and W. G. Robertson (M.A.)—equal; 42. W. Collins; 43. D. P. Blair; 44. R. Davidson and J. R. Kerr—equal; 46. C. S. Baxter, A. J. Harpur, and E. S. Simpson—equal; 49. T. H. Dickson; 50. S. E. Martin; 51. F. Smith; 52. W. Y. Craig and M. S. Fraser—equal.

PRACTICAL ZOOLOGY.

SECTION A.

FIRST-CLASS HONOURS.—1. H. H. Thorburn (*Medallist*); 2. R. P. Thomson; 3. A. J. O'Brien, W. M. Scott, and M. S. Fraser—equal.

SECOND-CLASS HONOURS.—6. F. H. S. Gardner ; 7. R. P. M'Morland ; 8. T. H. Dixon and J. R. Holgate—equal ; 10. T. G. Brown, A. Dick, A. M. Drennan, R. H. Marshall, and A. C. B. M'Murtrie—equal ; 15. J. Lindsay ; 16. N. S. Carmichael, H. S. A. Hogg, R. E. Marwick, and G. Robertson—equal ; 20. F. P. Wernicke ; 21. A. C. Tait ; 22. N. Martin ; 23. D. P. Blair, R. G. Cunningham, J. C. Grieve, W. Henderson, W. J. Maloney, and A. H. Maxwell—equal.

#### SECTION B.

FIRST-CLASS HONOURS.—1. Duncan M. F. Barker ; 2. H. E. Rawlence (*Medallists*) ; 3. W. Gemmill ; 4. H. Brown ; 5. E. Thompstone ; 6. J. P. Lowson, K. W. Mackenzie, A. E. Turnbull, and J. A. Loughridge—equal.

SECOND-CLASS HONOURS.—10. W. M. Hewetson, J. C. Holm, G. M'Mullan, and W. E. R. Williams—equal ; 14. R. S. Frew ; 15. T. Davidson ; 16. R. Davidson, R. Duncan, W. R. Ridley, W. S. Stevenson, and A. D. Stewart—equal ; 21. R. E. Moyes ; 22. T. Fraser, G. R. Gray, and J. N. M'Turk—equal ; 25. G. S. Banks, E. H. Black, G. A. Gordon, S. E. Martin, and E. S. Simpson—equal.

J. C. EWART, M.D., *Professor.*

#### PRACTICAL CHEMISTRY.

FIRST-CLASS HONOURS.—1. William Eadie, Stirlingshire (*Medallist*) ; 2. M. Ahmed, India, and J. T. Johnstone, Edinburgh—equal ; 4. F. H. S. Gardner.

SECOND-CLASS HONOURS.—5. L. Gibson ; 6. C. L. Philip ; 7. A. Brebner, Edinburgh, and William Carsewell—equal.

ALEX. CRUM BROWN, M.D., *Professor.*

#### PHYSICS.

FIRST-CLASS HONOURS.—1. H. H. M'Craw, Scotland ; T. B. Johnston, Aldershot ; and D. M. Mathieson, Edinburgh—equal (*Medallists*) ; 4. S. G. Corner, Inverness, and J. M. Dickson, Edinburgh—equal ; 6. Murdo Maclean, Scotland.

SECOND-CLASS HONOURS.—7. H. C. Wilson, Edinburgh ; 8. R. H. Walton, North Wales, and Alex. M'Donald, Scotland—equal ; 10. S. T. Champtaloup, New Zealand ; 11. A. A. Ollivierre, Trinidad ; 12. John Ritchie, Scotland, and A. C. Alport, Cape Colony—equal ; 14. Philip Vickerman, New Zealand ; 15. J. Spencer-Daniell, New Zealand ; 16. A. J. Miller, Ceylon ; 17. L. F. Dawson, England ; 18. A. M. Macarthur, Scotland ; 19. R. M. Robb, Ayr ; T. H. Scott, Scotland ; and Edward Valenzia, Malta—equal ; 22. D. W. Greenfield, Scotland ; 23. J. Z. H.



Rousseau, Cape Colony ; 24. J. S. Kinross, Scotland ; J. G. Nicholson, St Andrews ; Henry Sauzier, Mauritius ; and H. M. Cargin, Ireland—equal ; 28. Harold Mowat, Scotland, and George Raffan, Australia—equal.

C. G. KNOTT, D.Sc., *Lecturer.*

### SENIOR PRACTICAL ANATOMY.

FIRST-CLASS HONOURS.—1. H. C. Gibson, Orkney, and D. P. D. Wilkie, Scotland—equal (*Medallists*) ; 3. N. C. Fischer, Scotland ; 4. F. E. Ross ; 5. G. M. Coughtrey, New Zealand, and J. M'F. Falconer, Lasswade—equal ; 7. P. A. Harry, Jamaica ; 8. F. H. Gibson, England ; 9. G. A. Davies, England ; 10. Kenneth A. Cappie, Edinburgh ; 11. H. S. Reid, Edinburgh, and D. Jobson Scott, Montrose—equal ; 13. A. G. Glass, Scotland, and A. S. Gordon, Scotland—equal ; 15. N. C. Forsyth, Scotland.

SECOND-CLASS HONOURS.—16. D. C. Welsh, Selkirk ; 17. L. G. Bruce, Scotland, and C. M. Gillespie—equal.

### JUNIOR PRACTICAL ANATOMY.

FIRST-CLASS HONOURS. — 1. David Brown, Roxburghshire ; J. P. S. Jamieson, Shetland ; H. A. Stewart, Scotland ; and C. J. Smith, Edinburgh—equal ; (*Medallists*) ; 5. H. R. M'Intyre, China ; 6. W. J. Fraser, Ceylon, and George Hadden, Ireland—equal ; 8. James Craw, Berwickshire ; T. H. Easton, Scotland ; W. H. Forsyth, Scotland ; and W. M. Munby, North Shields—equal ; 12. J. R. Hall, Northumberland ; Charles M'Neil, Scotland ; Peter M'Ewan, Scotland ; R. J. Mackessack, Scotland ; and Oliver Smith, Lincoln—equal ; 17. George Blair, Scotland ; H. B. Morris, Scotland ; A. C. Macmaster, New Zealand ; F. J. G. Tocher, Scotland ; and R. Clive Walker, Edinburgh—equal ; 22. Robert Donaldson, M.A., Musselburgh ; D. W. Sibbald, New Zealand ; and T. Scoresby Jackson, England—equal ; 25. John Lindsay, London ; J. S. Mitchell, Scotland ; E. M. Simmers, England ; and L. H. Skene, Scotland—equal ; 29. J. C. D. Allan, India ; H. A. Edwards, Scotland ; F. E. Field, British Guiana ; Wm. Jarvis, Scotland ; M. M. Mamourian, Smyrna ; and H. M. Thompson, England—equal ; 35. J. S. Kinross, Scotland, and Andrew Wight, Scotland—equal ; 37. H. P. Cook, Scotland ; R. A. Chapman, England ; and H. G. Sutherland, Scotland—equal ; 40. K. A. Moody-Stuart, Scotland ; 41. G. T. Drummond, Scotland, and H. J. Norman, England—equal ; 43. Wm. Lumsden, England, and A. N. J. Vizarat, Hyderabad—equal ; 45. R. L. Jones, North Wales ; 46. W. E. Reynolds, Portugal.

D. HEPBURN, M.D., C.M., *Lecturer.*

WM. TURNER, K.C.B., M.B., *Professor.*

# PRACTICAL PHYSIOLOGY (HISTOLOGY).

FIRST-CLASS HONOURS.—1. R. B. Barnetson, Edinburgh, and G. F. S. Landon, Brazil—equal; 3. James Craw, Berwickshire, and Basil H. Watt, Scotland—equal; 5. D. S. Murray, Edinburgh (*Medallists*); 6. R. Donaldson, M.A., Musselburgh; N. C. Forsyth, Scotland; and A. N. J. Vizarat, Hyderabad—equal; 9. L. S. Milne, Montrose, and E. M. Henderson, Scotland—equal; 11. C. J. Smith, Scotland, and G. T. Drummond, Scotland—equal; 13. W. E. Reynolds, Portugal, and J. H. Hume, Scotland—equal; 15. Oliver Smith, England; J. Lindsay, England, and J. Chisholm, Inverness—equal; 18. D. W. Sibbald, New Zealand, and A. D. M'Callum, England—equal; 20. J. M. Grant, Scotland; S. A. M'Clintock, Londonderry; and G. Blair, Scotland—equal; 23. D. Brown, Roxburghshire, and R. H. Watt, Scotland—equal; 25. T. Scoresby Jackson, England, and J. P. S. Jamieson, Shetland—equal; 27. H. R. Macintyre, China, and H. B. Morris, Scotland—equal; 29. E. A. Elder, Edinburgh, and T. E. Roberts, Scotland—equal; 31. G. Hadden, Ireland; J. W. Cairns, Scotland; and D. C. Crole, Scotland—equal.

SECOND-CLASS HONOURS.—34. K. A. Moody-Stuart, Scotland; C. S. Ryles, India, and J. M. R. Flament, Trinidad—equal; 37. Douglas Bell, Scotland; W. Anderson, Scotland; A. Macrae, Scotland; and G. Ormrod, Cumberland—equal; 41. M. M. Mamourian, Smyrna, and J. C. D. Allan, India—equal; 43. T. A. MacGibbon, New Zealand; J. L. Gunn, Scotland; and H. A. Edwards, Scotland—equal; 46. W. Magill, Ireland; D. L. Morrison, Scotland; and E. A. Aylward, Croydon—equal; 49. M. Cohen, Canada; R. C. Walker, Edinburgh; and F. T. Bowerbank, Penrith—equal; 52. J. H. H. Joubert, Cape Colony, and O. M. Gericke, Cape Colony—equal; 54. A. W. Madsen, Portobello; A. Wight, Scotland; and A. Macmaster, New Zealand—equal; 57. N. C. Dutt, India, and C. S. Rippon, Australia—equal; 59. W. T. Smith, Scotland; F. R. Sinton, Scotland; H. M. Thompson, England; and D. M. C. Church, Edinburgh—equal; 63. F. Aitken, Scotland; A. C. Pickering, England; A. N. Fraser, Scotland; and K. M. A. Inniss, Trinidad—equal; 67. F. E. Wall, New South Wales; J. Green, England; W. Jarvis, Scotland; and G. H. Ussher, New Zealand—equal; 71. W. F. Archibald, India; H. P. Cook, Scotland; J. M. Barkley, Ireland; and G. Cunningham, Scotland—equal; 75. G. P. Norman, England; A. S. Mactavish, Kelso; J. Ings, New Zealand; and R. W. L. Wallace, Aberdeenshire—equal; 79. J. Mackenzie, Scotland; L. Fourie, South Africa; R. A. Spence, Scotland; J. G. Craig, Scotland; and R. C. Standring Smith, England—equal; 84. F. E. Field, British Guiana; P. A. Harry, Jamaica; E. H. Smith, Trinidad; J. F. James, England; and D. H. Paul, Scot-

land—equal ; 89. G. Stewart, Lasswade ; W. P. Beattie, Glasgow ; T. Robertson, Scotland ; and J. W. H. Babington, Ireland—equal ; 93. C. M'Neil, Scotland ; John Jardine, Scotland ; R. S. Orbell, New Zealand ; J. F. Mackay, Scotland ; J. W. N. Roberts, Wales ; and H. V. Goldstein, New Zealand—equal ; 99. A. Stephen, Dunfermline ; M. M. Sujjad Beg, India ; J. S. Mitchell, Dunfermline ; W. J. Fraser, Ceylon ; J. T. Young, Cape Colony ; T. E. Coulson, Lincolnshire ; and S. C. Fernando, Ceylon—equal ; 106. J. M. Graham, Scotland ; W. N. Munby, North Shields ; A. G. Cook, India ; R. E. N. Newman, India ; J. Dundas, Scotland ; E. J. C. Groves, India ; E. M. Simmers, England ; H. G. Marshall, Ireland ; J. D. Wells, England ; and G. M'Call Smith, Scotland—equal ; 116. H. E. A. Washbourn, New Zealand ; E. J. Elliott, Scotland ; T. Wright, Ireland ; J. Morris, Wales ; J. R. Robertson, Scotland ; R. Chapman, England ; P. M'Ewen, Scotland ; V. R. Gorakshakar, India ; and S. A. Smith, England—equal ; 125. K. A. O. Quainoo, West Africa ; C. E. Elliston, Suffolk ; F. J. G. Tocher, Dumfries ; J. L. Pearce ; A. J. Lewis, India ; and H. G. Sutherland, Scotland—equal ; 131. W. L. Locke, Scotland ; P. Steele, Scotland ; A. B. Spence, Scotland ; W. J. Taggart, Ireland ; W. Patton, Ireland ; James Mackenzie, Scotland ; H. D. Robb, Dumfries ; F. E. Ross, Straits Settlements ; and W. J. Patterson, Ireland—equal ; 140. G. P. Joy, London ; Pollok Donald, England ; A. Carruthers, Edinburgh ; J. R. Hall, Northumberland ; K. G. Archer, Australia ; D. H. Welsh, Scotland ; John Clarke, Ireland ; Thomas Campbell, Scotland ; and W. H. Elder, Scotland—equal.

E. A. SCHÄFER, LL.D., *Professor.*

## PRACTICAL MATERIA MEDICA.

FIRST-CLASS HONOURS.—1. E. M. Henderson, Scotland ; 2. John P. M'Gowan, M.A., Dumfries (*Medallists*) ; 3. Robert Donaldson, M.A., Musselburgh ; and S. A. M'Clintock, Londonderry—equal ; 5. Thomas H. Easton, Scotland ; 6. David Brown, Scotland ; and Hugh R. Macintyre, China—equal ; 8. Arthur C. Strain, Scotland ; 9. George Mathewson, Scotland, and Lindsay S. Milne, Scotland—equal ; 11. J. W. Babington, Ireland ; R. Balfour Barnetson, Scotland ; John J. Ferguson, Scotland ; and William Wishart, Scotland—equal ; 15. James A. Ross, Perth, and Fred. Ritchie Sinton, Scotland—equal ; 17. Hugh A. Stewart, Scotland ; 18. James Lochhead, Scotland ; 19. Douglas Bell, England ; Robert Buchanan, Edinburgh ; James Craw, Scotland ; Hope M. Gillespie, Kirkgunzeon ; and David Jobson Scott, Scotland—equal ; 24. William Grant, Scotland ; 25. Alexander Berrie, India, and Alexander Stephen, Scotland—equal ; 27. A. Stewart Gordon, Scotland ; W. Torrance Smith, Mid-Calder ; and R. A.

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L. van Someren, Straits Settlements—equal ; 30. Pollok Donald, Scotland ; 31. Charles S. Rippon, New South Wales.

SECOND-CLASS HONOURS.—32. Dudley W. Boswell, Norfolk ; 33. Archibald M'Callum, England ; Charles J. Smith, Scotland ; and George Usher, New Zealand—equal ; 36. Charles Edmonston, Scotland ; 37. William Fraser, Ceylon ; 38. John M. Beyers, South Africa ; Richard A. Chapman, England ; R. S. Enever-Todd, Scotland ; and Harley P. Milligan, England—equal ; 42. William P. Beattie, Scotland ; 43. James Mears, Northumberland, and David Wilkie, Scotland—equal ; 45. Alexander Hogg, New Zealand ; 46. John Jardine, Scotland, and George S. Clark, Edinburgh—equal ; 48. William Munby, England, and Thomas Wright, Ireland—equal ; 50. Kenneth Moody-Stuart, Scotland ; Ronald S. Orbell, New Zealand, and Hugh S. Reid, Scotland—equal ; 53. William Jarvis, Scotland, and William Stenhouse, Edinburgh—equal ; 55. John Saffley, Scotland ; 56. Frederick Bowerbank, England ; 57. James Mackenzie, Inverness.

T. R. FRASER, M.D., *Professor.*

### PRACTICAL PATHOLOGY.

FIRST-CLASS HONOURS.—1. H. S. Davidson, Melrose ; 2. J. M. Kirkness, Edinburgh ; 3. Cameron R. Gibson, Carlisle ; 4. R. A. Chambers, Scotland (*Medallists*) ; 5. Thomas Peebles, Edinburgh ; 6. D. Duncan Paton, Carnoustie ; 7. C. S. Crichton, Arbroath, and T. T. Thomson, India—equal ; 9. Angus Buchanan, Argyleshire ; J. A. Roux, Cape Colony ; and Robert Veitch, Edinburgh—equal.

SECOND-CLASS HONOURS.—12. L. Ram, India ; 13. W. W. Anderson, Carlisle, and Leslie Drake, Suffolk—equal ; 15. T. C. Blackwell, Harrow-Weald ; 16. G. A. Farie, Bridge of Allan ; J. W. Keay, Scotland ; and F. W. Lundie, Cape Colony—equal ; 19. J. W. Dewar, Scotland ; 20. A. A. Hall, Leith, and G. D. Sloan, Wigtownshire—equal ; 22. C. Dumanoire, Trinidad ; A. F. Hughes, Grenada ; and W. C. Morton, Trinidad—equal ; 25. J. M. Johnston and Henry Speirs, Berwickshire—equal ; 27. Samuel Burns, Ayr ; John Tait, Orkney ; and W. D. Wright, London—equal ; 30. C. Hawkins Craig, Edinburgh ; James Donaldson, Dundee ; J. Dudgeon Giles, Edinburgh ; Henry MacCormack, Ireland ; William Mackenzie, Edinburgh ; and J. A. Pottinger, Orkney—equal ; 36. J. M. Lovett, England, and G. H. S. Milln, Tayport—equal ; 38. H. N. Fletcher, Norfolk ; E. Muir, Scotland ; and W. Sanderson, Tranent—equal ; 41. D. E. Derry, England, and J. M. Macrae, Inverness-shire—equal ; 43. Alex. Lundie, Scotland ; J. Allan Anderson, Edinburgh ; and A. B. M. Thomson—equal ; 46. R. W. Craig, Mid-Lothian ; 47. Daniel Allison, Scotland ; J. W. Cathles, Scotland ; T. P. Caver-

hill, Berwickshire ; J. A. Duggan, Ireland ; Alex. Gray, Scotland ; P. W. Mason, New Zealand ; H. C. Martin, Ireland ; N. D. Mackay, Aberfeldy ; and E. J. Taylor, Cupar-Fife—equal ; 56. Louis Turiansky, Scotland ; 57. John Brennan, Ireland ; J. A. Ross, Perth ; and G. A. Skinner, Forfar—equal ; 60. John H. Kay, Scotland, and L. A. H. Lack, Trinidad—equal ; 62. W. MacLaren, Arbroath ; 63. C. M. Begg, New Zealand ; Mark Ashkenazie, Roumania ; D. Mackenzie Crooks, Jamaica ; D. M'K. Newton, Scotland ; W. Sibbald Robertson, Scotland ; and E. A. Turpin—equal.

Unavoidably absent from one examination—A. M. Dryden, Dumfries, and James Girdwood, Ayr.

#### SENIORS.

FIRST-CLASS HONOURS.—1. E. C. Gimson, Essex ; 2. G. M. Brunton, Scotland.

Unavoidably absent from one examination—W. E. Knight.

W. S. GREENFIELD, M.D., *Professor.*

### FORENSIC MEDICINE AND PUBLIC HEALTH.

(COMBINED COURSE.)

FIRST-CLASS HONOURS.—1. A. B. MacArthur Thomson ; 2. John Tait ; 3. C. Hawkins Craig (*Medallists*) ; 4. James M. Kirkness.

SECOND-CLASS HONOURS.—5. Cameron R. Gibson, M.A., ; 6. Robert A. Chalmers ; 7. Hugh S. Davidson ; 8. Andrew A. Hall ; 9. A. Campbell Geddes ; P. W. Mason ; and Robert Veitch—equal ; 12. Gilbert J. Farie ; 13. Henry C. Martin ; 14. Angus Buchanan ; 15. Charles M. Begg, John M. Darling, J. M. Dewar, Arthur M. Dryden, L. A. Hodgkinson-Lack, and Thomas Nicol—equal ; 21. J. Allan Anderson, John Bennett M'Neill, and C. F. A. Oberlander—equal ; 24. John Allan, R. W. Craig, and W. Godfrey—equal ; 27. William B. Cullen, J. D. Giles, and William Sanderson—equal ; 30. Grahame H. Skinner and J. H. D. Webster—equal ; 32. M. J. Ali Khan, Crawford S. Crichton, A. F. Hughes, and Henry MacCormac—equal ; 36. George W. Armstrong and Leslie W. Drake—equal ; 38. Alex. Gray, Ronald L. Henderson, Thomas Peebles, Thomas T. Thomson, and George J. Wentzel—equal ; 43. James Davidson, James Donaldson, F. W. Lundie, and Ian Macrae—equal ; 47. J. W. Keay, William MacLaren, D. M'Kenzie Newton, and John A. L. Wallace—equal ; 51. Rolland T. G. Aickin, John H. Kay, Alex. Lundie, B.Sc., Wm. Cuthbert Morton, and W. D. Wright—equal ; 56. Alfred B. Cox, John M. Johnston, and Leonard West—equal ; 39. William W. Anderson, Harry Caird, R. W. Johnstone, G. H. S. Miller, Henry Speirs, and G. W. Young—equal ; 65. Cecil E. Clay and J. Henderson Smith—equal ; 67. Hugh L. Munro and J. Easton Scott—equal ;

## 500 *Faculty of Medicine—Class Prize and Honours Lists.*

69. John M. Lovett ; 70. Fred. T. C. Linton, N. Douglas Mackay, and W. R. Spencer-Watkins—equal ; 73. Charles D. Lochrane ; 74. G. A. Davies, John O. Heyns, Alexander G. Glass, S. A. Johnston, and Wm. Mackenzie—equal ; 79. Douglas E. Derry, C. E. S. Mitchell, and E. J. Taylor—equal ; 82. D. Halliday Croom, J. A. Pottinger, and Lablu Ram—equal ; 85. C. E. Dumanoire ; 86. C. R. P. Mitchell, Walter Pritchard, James A. Ross, and G. D. Sloan—equal ; 90. T. P. Caverhill, Arthur Dangerfield, L. C. V. Hardwicke, and C. H. Houghton—equal ; 94. Arthur C. Devereux, Hugh N. Fletcher, A. E. Hodgson, I. C. Keir, Louis Turiansky, Ernest A. Turpin, Robert Milne Walker, and D. H. Wessels—equal.

HENRY D. LITTLEJOHN, Kt., M.D., } *Professors.*  
C. HUNTER STEWART, M.B., D.Sc., }

### OPERATIVE MIDWIFERY AND GYNECOLOGY.

FIRST-CLASS HONOURS.—1. W. H. Prentice, M.A., Scotland ; 2. R. A. J. Harper, Mid-Lothian, and C. W. Saleeby, England—equal (*Medallists*) ; 4. J. G. M'Bride, Edinburgh.

A. R. SIMPSON, M.D., *Professor.*

### MENTAL DISEASES.

FIRST-CLASS HONOURS.—1. T. B. Hamilton, W. Newlands, and C. J. Shaw—equal ; 4. W. E. Marshall (*Medallists*) ; 5. C. M. Campbell, D. M. Callender, and W. Lilico—equal ; 8. David R. MacGregor, W. F. Smeall, and J. Scott Sewell—equal.

SECOND-CLASS HONOURS.—11. W. F. Macdonald ; 12. Henry Herd and Harry Overy—equal ; 14. H. Lovett Cumming and Philip H. Mules—equal ; 16. Paul Mathews, Andrew B. Ross, M.A., and Robert E. Russell—equal ; 19. D. P. Goil and John Haegert—equal ; 21. James Kirkwood and E. A. Wood—equal ; 23. Archibald Brownlie, R. Dods Brown, and A. M. Moll—equal ; 26. J. Dunlop and John Kennedy Mathieson—equal ; 28. P. Vickers ; 29. W. Armour Brown ; 30. W. B. Tannahill and Herman Kramer—equal ; 31. A. C. Balfour.

T. S. CLOUSTON, *Lecturer.*

### DISEASES OF THE EYE.

FIRST-CLASS HONOURS.—1. Robert C. Low ; 2. Wm. E. Marshall and Andrew B. Ross—equal ; 4. T. W. E. Ross (*Medallists*) ; 5. C. Hawkins Craig, H. S. Davidson, and Ed. J. Morton—equal ; 8. A. N. Fell, John K. Matheson, and W. F. Macdonald—equal ; 11. G. W. Brunton and Alex. Gray—equal ; 13. A. T. H. Rabagliata ; 14. Wm. Blackwood, C. H. Bösenberg, D. M. Callender, D. J. Hamman, D. B. Goil, Geo. Harrison, R. C.



Irvine, J. H. Montgomery, A. C. Owen, B. P. Watson, and W. T. Woodburn—equal; 25. James Kirkwood; 26. Alfred Brown, J. C. G. Carmichael, A. Gillespie, Paul Mathews, Robert M'Neil, J. Politachi, and Edward E. Wood—equal.

SECOND-CLASS HONOURS.—33. P. Vickers; 34. P. W. Mason; 35. J. R. Bosman, G. B. Brand, J. F. Duncan, J. W. Duffus, J. S. Elliot, S. Gilford, C. Houghton, Wm. Hume, Harold Kerr, E. L. Meynell, H. H. Roberts, and R. E. Russell—equal; 47. M. Holmes and A. O. Hooper—equal; 49. Maurice Davies, Andrew Grant, and D. N. W. Murray—equal; 52. H. J. Dunbar, John Hunter, J. M. Johnstone, and R. S. Munro—equal; 56. Frank J. Dawson, J. Dunlop, Arthur Hutley, Andrew J. Rowan, Maurice Sinclair, and Geo. Wight—equal; 62. F. Ali, John Allan, H. W. Gush, D. Mackinnon, W. B. Tannahill, and D. H. Wessels—equal; 68. George Henderson, 69. T. A. Raubenheimer; 70. Alex. H. Baxter, J. Findlay, A. B. Flett, E. C. Gimson, Ronald Henderson, R. D. Kidd, Wilfred E. Knight, J. C. Loudon, and E. C. Prichard—equal.

GEORGE A. BERRY, M.B., *Lecturer.*

#### DISEASES OF THE EAR, NOSE, AND THROAT.

FIRST-CLASS HONOURS.—1. J. H. Harvey Pirie, B.Sc. (*First Prize*); 2. Meta Scott-Dickson (*Second Prize*); 3. H. P. Thompson.

SECOND-CLASS HONOURS.—4. Robert Veitch; 5. Andrew A. Hall.

P. M'BRIDE, M.D., *Lecturer.*

#### TROPICAL DISEASES.

FIRST-CLASS HONOURS.—1. J. Kirkwood, Scotland; 2. Henry St John Randell, England (*Medallists*); 3. Duncan Forbes, Scotland; John K. Matheson, Scotland; and A. B. dos Remedios, India—equal; 6. A. W. M. Harvey, Scotland; 7. Robert Sproul, Scotland; 8. Andrew Grant, Ross-shire; 9. J. B. Mason, Scotland.

SECOND-CLASS HONOURS.—10. J. F. Cavanagh, Ireland; 11. R. J. Irving, Australia; 12. R. G. Gorton, Forfarshire.

The following gentlemen were unavoidably absent from written examinations:—F. Rose, M.B., Scotland; A. F. H. Rabagliati, Scotland.

ANDREW DAVIDSON, M.D., *Lecturer.*

#### DISEASES OF THE SKIN.

FIRST-CLASS HONOURS.—1. John Politachi (*Prizeman*); 2. C. M. Campbell.

SECOND-CLASS HONOURS.—3. W. F. MacDonald.

W. ALLAN JAMIESON, M.D., *Lecturer.*

WINTER SESSION, 1901-1902.

CHEMISTRY.

ROBERT WILSON MEMORIAL PRIZE.—Peter D. Innes, Perth.

FIRST-CLASS HONOURS. — 1. Peter D. Innes, Perth; 2. Kenneth M'Murtrie; 3. J. H. Melville, Fife; 4. Alexander Waugh Young, Edinburgh; 5. John W. Frew; 6. John Moffat Logie, Fife, and Claude Pycroft—equal (*Medallists*); 8. Frank Blamire, Lancashire; 9. Andrew Duncan, and Thomas M. Finlay, Shetland—equal; 11. William Ashworth, Halifax; A. Ninian Bruce, Edinburgh; William Landells, Dumfries; Peter Lornie, Fife; and J. N. M'Turk, Bradford—equal; 16. William Eadie, Larbert; W. H. Riddell, Scotland; and George D. Walker, Edinburgh—equal; 19. William T. A. Jolly; 20. Alexander Buchan, Fife; J. Sutherland Edwards, Dunbar; John M'Cutcheon, Lanark; C. James Milne, Trinidad; Robert Small, Alva; and W. J. P. Sutherland—equal; 26. A. M. Drennan, and Michael Gavin—equal; 28. Andrew Howison, Edinburgh; John Smith, Larbert; David W. Soote; and John Gordon Thomson, Whitburn—equal; 32. Hugh G. R. Leonard, India; Alexander M'Donald, Edinburgh; and A. C. B. M'Murtrie—equal.

SECOND-CLASS HONOURS.—35. Edward C. Girling, Ipswich; 36. Alexander Howe Gardner, Edinburgh; James P. Lowson; and Alexander C. Mallace—equal; 39. William Core, M.A., and E. R. Grieson, Falmouth—equal; 41. James H. Aikman, Leith, and Hugh Jameson—equal; 43. Alan MacDonald Dick; R. Prosser, Wales; and Frank Ross, Fife—equal; 46. George A. Grierson, Edinburgh; 47. T. B. Johnston; 48. Robert J. Nicholson, Edinburgh; 49. S. T. Champtaloup, New Zealand; Thomas Oliver, Scotland; George Pollock, and P. Vickerman, New Zealand—equal; 53. John G. Fleming; Sydney Buxton Legge, Kilconquhar; and Eustace Russell, Redcar—equal; 56. Robert Fraser, Edinburgh; J. C. Johnston; James Ogilvie, Forfar; A. E. Parr, and G. W. Scarth, Orkney—equal; 61. Frank Stuart Cumming; 62. C. H. Burgess, Ireland; Samuel S. Dykes, Dumfries; and E. R. Thompson, Hull—equal; 65. Robert Douglas, Perth; J. S. Manson; and E. Thompson, England—equal; 68. D. Dowie Dunn; Leslie D. Stephen, and Robert H. Walton, New Zealand—equal; 71. A. Hume Cuthbert, Berwickshire; George A. Gordon; James T. Johnstone; H. L. Sells, Guildford; and Donald Stewart—equal; 76. C. Norman Kemp, Edinburgh; 77. Hugh F. Briggs, Dollar; A. G. K. Ledger, England; G. B. Macgregor; M. Maclean; W. O. Slater; S. Simpson; and Thomas Simpson—equal; 84. Cuthbert Carter; 85. George A. Easson, Coupar-Angus; W. J. Geale, New South Wales; and W. Kelman Macdonald—equal; 88. Donald N.

Chisholm, Perth, and J. Oswald Jones, Rhyl—equal ; 90. William Myles, and T. H. Scott, Selkirk—equal; 92. F. G. H. R. Black, Dollar, and W. J. Martyn Clark, India—equal; 94. Fred J. Chalmers ; William T. Douglas ; Mark Stewart Fraser, Scotland ; W. L. Gordon ; G. D. M'Ivor ; J. Lee Hamilton Paterson ; and E. D. Wilmot, Macclesfield—equal.

Edward Burnet and Archibald King were ill at one of the three examinations ; at the other two they obtained marks which would have qualified them for second-class honours.

## PRACTICAL CHEMISTRY.

**FIRST-CLASS HONOURS.** — 1. Peter D. Innes, Perth ; 2. Robert Douglas, Perth ; G. A. Grierson, and Donald Stewart—equal ; 5. Sydney T. Champaloup, New Zealand—(*Medallists*) ; 6. Alexander Buchan, Fife ; A. M. Drennan, J. Sutherland Edwards, Dunbar ; Michael Gavin, and A. C. B. M'Murtrie—equal ; 11. Peter Lornie, John M'Cutcheon, Lanark ; and Alexander M'Donald, Edinburgh—equal ; 14. Frank Blamire, Lancashire ; 15. Edwin C. Girling ; 16. W. Ashworth, Halifax, and Alexander Waugh Young—equal ; 18. Hugh Jamieson, Ayrshire ; 19. D. Dowie Dunn, Bathgate ; J. H. Melville, Fife ; and George Pollock—equal ; 22. James Ogilvie, Forfar ; R. Prosser, and John Smith—equal ; 25. William M'Leod, Claude Pycroft, and Frank Ross—equal ; 28. John W. Frew, C. James Milne, and William J. P. Sutherland—equal ; 31. Thomas M. Finlay, Shetland ; David Lawson, Leven ; G. B. Macgregor, William H. Riddell, David W. Soote, and John Gordon Thomson, Whitburn—equal ; 37. A. M. Dick ; 38. Alexander Howe Gardner, Edinburgh, and Alexander Pirie Watson—equal ; 40. F. G. H. R. Black, Frank Stuart Cumming, and E. R. Thompson, Hull—equal.

**SECOND-CLASS HONOURS.**—43. E. R. Grieveson, Falmouth, and T. H. Scott, Selkirk—equal ; 45. Donald N. Chisholm, Perth ; Alfred E. Parr, and R. H. Walton, New Zealand—equal ; 48. David M. Barcroft, William Core, M.A. ; W. K. Macdonald, and Eustace Russell, Redcar—equal ; 52. T. B. Johnston, Edinburgh ; and J. L. Hamilton-Paterson, Newcastle-on-Tyne—equal ; 54. John Edward Gordon ; 55. Samuel S. Dykes, Dumfries ; J. C. Johnston, and Henry G. Scott—equal ; 58. James H. Aikman, Leith ; A. G. Anderson, Forres ; Cuthbert Carter, Andrew Howieson, William Myles, and Alfred E. Turnbull—equal ; 64. William A. Jolly, J. N. M'Turk, Bradford ; J. A. Taylor, and Philip Vickerman—equal ; 68. Hugh F. Briggs J. M. Christie, Robert Fraser, Leith ; Sydney Buxton Legge, Kilconquhar ; J. S. Manson, and John L. Stewart, Edinburgh—equal ; 74. R. G. Cunningham, James P. Lowson, Belfast ; Bernard Blair Philips, William Cecil Whiteside, England ; and O. H. Williams—equal ;

79. M. G. Dill; 80. Robert M. Robb; 81. S. G. Corner, Scotland, and J. D. Campbell Duncan—equal; 83. John H. Bell, W. J. Martyn Clark, India; J. Oswald Jones, R. J. Ritchie, James Nisbet Turnbull, Edinburgh; and A. G. Visser—equal; 89. T. Yule Finlay and H. L. Sells, Guildford—equal; 91. James Allen Ainscow, Lancashire; John G. Fleming, Mark Stewart Fraser, Scotland; and John A. MacLeod—equal; 95. H. W. Binks, Arnold Davies, and E. D. Simson—equal; 98. K. K. Grieve and Z. M. H. Ross—equal; 100. Robert Duncan, W. G. Rivers, and W. E. Rees Williams—equal; 103. E. W. Dye, Natal, George A. Gordon, N. F. Lloyd, Fife; and A. Robertson—equal; 107. Andrew Hume Cuthbert, William T. Douglas, George D. M'Ivor, John M'Donald Ross, Leslie D. Stephen, and H. Maxwell Vickers, Jamaica—equal; 113. M. Maclean, Scotland; 114. G. F. V. Leary, Tyrone; John M. MacPhail, Argyllshire; H. S. Nicolson, John D. Paterson, and David Smith, Shetland—equal; 119. Alexander M. Boyle; 120. C. H. Burgess, Stanley W. Hogg, H. C. Johnston, South Africa; Arthur Stuart Holden, James N. MacLaughlin, and R. P. M'Morland—equal.

J. Randolph Davidson was ill at one of the four examinations; at the other three he obtained marks which would have qualified him for First-Class Honours.

W. G. Riley and W. O. Sclater were ill at one of the four examinations; at the other three they obtained marks which would have qualified them for Second-Class Honours.

ALEX. CRUM BROWN, M.D., *Professor.*

### ELEMENTARY ZOOLOGY.

FIRST-CLASS HONOURS.—1. S. T. Champtaloup; 2. T. B. Johnston (*Medallists*); 3. F. C. Mills.

SECOND-CLASS HONOURS.—4. Wm. Core; 5. M. Maclean; 6. Jas. Brebner; 7. H. J. More; 8. S. Pennington; 9. J. Ritchie; 10. W. M. P. Henderson; 11. A. W. Young; 12. T. H. Scott.

### PRACTICAL ZOOLOGY.

#### CLASS A.

FIRST-CLASS HONOURS.—1. S. T. Champtaloup; 2. R. H. Walton (*Medallists*); 3. K. W. D. Macrae and W. Whiteside—equal.

SECOND-CLASS HONOURS.—5. A. W. Young; 6. J. D. C. Duncan; 7. T. H. Scott; 8. F. C. Mills.

#### CLASS B.

FIRST-CLASS HONOURS.—1. R. B. Young (*Medallist*); 2. C. H. Burgess. Second-Class Honours.—3. K. M'Murtrie and A. Taylor—equal.

J. C. EWART, M.D., *Professor.*

# PHYSICS.

FIRST-CLASS HONOURS.—1 A. M. Drennan, Scotland; W. T. A. Jolly, Edinburgh, and J. N. M'Turk, Bradford—equal (*Medallists*); 4. E. R. Grierson, England; 5. W. Ashworth, Halifax; 6. Claude Pycroft, England; 7. George Blair, Scotland, and J. W. Frew, Denny—equal; 9. J. L. H. Paterson, Dumbarton; 10. A. M. Dick, Harrington, Cumberland; 11. A. G. K. Ledger, Wallington, Surrey; 12. Edward Burnet, England, and W. J. P. Sutherland, Wick—equal.

SECOND-CLASS HONOURS.—14. W. K. Macdonald, London; 15. S. S. Dykes, Scotland, and J. S. Manson, Glasgow—equal; 17. E. C. Girling, England; 18. Peter Lornie, Abdie, Newburgh, Fife; 19. D. M. Barcroft, Ireland, Frank Blamire, England, and J. A. Currell, Carnlough, Belfast—equal; 22. W. H. Riddell, Scotland, and Frank Ross, Scotland—equal; 24. J. M. Christie, China, and E. R. Thompson, Ku-lang-su, Amoy—equal; 26. M. S. Fraser, Colvend, Kirkcudbrightshire, and John Macdonald, Newtonmore—equal; 28. J. A. Ainscow, Radcliffe, Lancashire; 29. J. H. Aikman, Scotland, and K. M. D. Macrae, England—equal; 31. W. J. M. Clark, India, and S. B. Legge, Kilconquhar—equal; 33. C. J. Faill, Scotland; L. D. Stephen, Scotland; and Ethel Wiseman, India—equal; 36. A. C. B. M'Mutrie, Edinburgh; 37. R. S. Cotter, Australia; 38. J. S. Edwards, India; C. J. Milne, Trinidad; George Pollock, Scotland; and W. G. Riley, Keighley, Yorkshire—equal; 42. J. H. Bell, Edinburgh; Robert Fraser, Scotland; and W. J. Macnab, Scotland—equal; 45. E. H. Black, England; J. G. Fleming, England; G. B. MacGregor, Scotland; J. N. Macphail, Scotland; and H. B. Porteous, Dumfries—equal.

C. G. KNOTT, D.Sc., *Lecturer.*

# SENIOR PRACTICAL ANATOMY.

FIRST-CLASS HONOURS.—1. David Brown, Roxburghshire; T. H. Easton, Scotland; William J. Fraser, Ceylon; Ephraim Henderson, Ayrshire; A. W. Hogg, New Zealand; and D. P. D. Wilkie, Scotland—equal (*Medallists*); 7. J. W. Babington, Ireland; T. B. Mouat, Haddington; and C. H. J. Smith, Edinburgh—equal; 10. W. P. Beattie, Glasgow; A. G. Coullie, Pencoiltland; Noel C. Forsyth, Scotland; H. M. Gillespie, Kirkgunzeon; G. F. S. Landon, England; James Lochhead, Earlston; W. M. Munby, N. Shields; and H. R. Macintyre, Scotland—equal; 18. A. R. Berrie, India; William Jarvis, Scotland; L. S. Milne, Scotland; and A. C. Strain, Scotland—equal; 22. R. G. W. Adams, New Zealand; L. J. H. Bell, Scotland; James Craw, Berwickshire; R. S. Enever-Todd, Edinburgh; A. N. Fraser, Falkirk; H. S. Reid, Scotland; and H. A. Stewart, Scotland—equal; 29. G. S.

- Clark, Edinburgh; A. G. Cook, India; P. A. Harry, W. Indies; A. D. M'Callum, England; A. W. Neill, Scotland; and W. A. Wilson-Smith, Berwickshire—equal; 35. R. B. Barnetson, Edinburgh; D. S. Murray, Edinburgh; R. J. Mackessack, Forres; and W. B. Wishart, Scotland—equal; 39. J. G. Craig, Scotland; E. J. Elliot, Scotland; David Golding; John Jardine, Penicuik; K. A. Moody-Stuart, Scotland; and John Morris, Wales—equal; 45. A. S. L. Biggart, England; W. H. Forsyth, Scotland; H. P. Milligan, England; Archibald Oliver, Scotland; and W. H. Welsh, Scotland—equal; 50. E. J. Griffiths, Wales; J. R. Hall, Northumberland; and H. M. Thompson, England—equal; 53. J. B. Lockerbie, Scotland; 54. G. T. Drummond, Scotland; and John Grieve, Edinburgh—equal; 56. V. T. Carruthers, India; 57. S. A. M'Clintock, Londonderry; 58. E. A. Aylward, England; F. T. Bowerbank, England; R. A. Chapman, England; and John Saffley, Dumfriesshire—equal; 62. J. G. B. Shand, Scotland; 63. K. G. Archer, Australia; Douglas Bell, Barrow-on-Furness; and A. N. J. Vizarat, Hyderabad—equal; 66. R. M. Liddell, England; and L. H. Skene, Scotland—equal; 68. W. S. Murdoch Brown, Scotland; R. W. L. Wallace, Scotland; and Joseph Douglas Wells, England—equal; 71. Richard Bladworth, Edinburgh, and Joseph Robinson, England—equal.
- SECOND-CLASS HONOURS.—73. J. T. Gunn, Scotland; 74. George Stewart, Lasswade; 75. Thomas Robertson, Scotland; 76. A. B. Spence, Scotland.

### JUNIOR PRACTICAL ANATOMY.

(Examinations on the Students' Own Dissections.)

- FIRST-CLASS HONOURS.—1. A. G. Anderson, Scotland, and W. O. Sclater, Orkney—equal; 3. Thomas Davidson, Dundee (*Medallists*); 4. W. G. Robertson, M.A., Roxburghshire; 5. J. S. Mitchell, Scotland; 6. H. P. Cook, Scotland; W. M. Hewetson, Appleby; A. M'Tier Pirrie, Edinburgh; Oliver Smith, Lincoln; and W. M. Scott, Scotland—equal; 11. A. M. Drennan, Scotland; David Eakin, Ireland; F. E. Field, British Guiana; A. S. Hendrie, Scotland; W. E. J. Maloney, Edinburgh; and R. B. Thomson, Scotland—equal—17. F. J. G. Tocher, Scotland; J. A. R. Thompson; and R. C. Walker, Edinburgh—equal; 20. J. A. Gunn, Scotland; E. B. Munro, India; Murdo Mackinnon, Portree; and H. D. Robb, Dumfries—equal; 24. George Blair, Scotland; J. M. Dickson, Scotland; H. A. Edwards, Motherwell; M. S. Fraser, Colvend; J. C. Grieve, Scotland; J. R. Kerr, Edinburgh; H. B. Morris, Dunfermline; and E. M. Simmers—equal; 32. R. R. Murray, India, and John Smith, Ayrshire—equal; 34. J. R. Holgate, England; 35. D. F. Mackenzie, Hereford, and Edward Valenzia, Malta—equal; 37. Norman Black, Greenock; Graham



Robertson, Scotland; and H. C. Wilson, Edinburgh—equal; 40. Alex. Mathieson, Scotland, and J. F. Mackay, Scotland—equal; 42. E. J. Black, Scotland, and R. Esmond Moyes, Scotland—equal; 44. Alex. Sandison, Edinburgh; 45. H. G. Sutherland, Glasgow.

SECOND-CLASS HONOURS.—46. H. S. A. Hogg, Selkirk; 47. William Henderson; 48. D. W. Anderson, Queensferry; 49. R. B. Davidson, England.

## LECTURES ON ANATOMY.

### SENIOR STUDENTS.

FIRST-CLASS HONOURS.—1. R. B. Thomson, Scotland (*Medallist*); 2. Alexander M'Rae, Scotland.

SECOND-CLASS HONOURS.—3. A. M'Tier Pirrie, Edinburgh; 4. E. J. Griffiths, Wales, and William M'Conaghy, India—equal; 6. William Lumsden, England.

### STUDENTS OF THE FIRST YEAR.

FIRST-CLASS HONOURS.—1. A. M. Dick, Harrington, Cumberland; 2. Philip Vickerman; 3. J. P. Lowson, Ireland (*Medallists*); 4. A. M. Drennan, Scotland; 5. T. Graham-Brown, Scotland, and Frank Ross, Newburgh, Fife—equal; 7. M. S. Fraser, Colvend, and W. O. Sclater, Orkney—equal; 9. W. H. Riddell, Scotland; 10. J. S. Edwards, Dunbar, and Solomon Kark, Cape Colony—equal; 12. T. A. MacGibbon, B.A., B.Sc., New Zealand, and Claude Pycroft, England—equal; 14. J. H. Aikman, Scotland; William Core, M.A., Scotland; Michael Gavin, Dunfermline; Peter Lornie, Newburgh; J. S. Manson, Glasgow; and W. G. Robertson, M.A., Roxburghshire—equal; 20. S. S. Dykes, Scotland; 21. A. G. Anderson, Scotland; J. H. Bell, Edinburgh; S. T. Champtaloup, New Zealand; E. S. Massiah; J. E. Mondon, Natal; E. Ross, M.A., Blair Atholl; and A. D. Stewart, Scotland—equal.

SECOND-CLASS HONOURS.—28. J. W. Frew, Denny; 29. E. W. Dyer, Natal; 30. A. H. Cuthbert, Scotland; J. A. Gunn, Scotland, and W. T. A. Jolly, Edinburgh—equal; 33. George Pollock, Scotland, and W. A. Taylor, Gold Coast—equal; 35. Innes W. Brebner, South Africa; T. B. Johnston, Aldershot; S. B. Legge, Kilconquhar; and J. N. M'Turk, Bradford—equal; 39. J. A. Currell, Belfast, and Farquhar Stewart, Portree—equal; 41. William Ashworth, Halifax; A. G. K. Lidgett, Surrey; and John M'Cutcheon, Scotland—equal; 44. C. Irvine Milne, England, and W. E. R. Williams, Dominica, West Indies—equal; 46. G. A. Grierson, Scotland, and F. H. Stewart, Galashiels—equal; 48. J. M. Christie, China; Arnold Davies, Wales; and W. M. P. Henderson, Scotland—equal; 51. M. Maclean, M.A., Muir of Ord; A. C. B. M'Mutric, Edinburgh; and T. Vule Finlay,

France—equal; 54. J. Randolph Davidson, Scotland; Eustace Russell, England; and R. H. Walton, Wales—equal; 57. D. P. Blair, Scotland; D. D. Dunn, Scotland; G. A. Gordon, Aberdeen; Austin Priestman, Bradford; H. L. Sells, England; E. R. Thompson, Amoy; and A. W. Young, England—equal; 64. John Alexander, Leith; Robert Duncan, Banffshire; E. C. Girling, England; David Mann, India; and O. H. Williams, Anglesea—equal; 69. F. G. H. R. Black, India; William Collins, India; C. James Milne, Trinidad, B.W.I.; G. B. Macgregor, Scotland; and J. A. Taylor, England—equal; 74. C. S. Baxter, Scotland, and A. S. Holden, England—equal; 76. Edward Burnet, England; I. H. Cornelius, India; W. R. Ridley, Rothbury; A. C. Russell, Scotland; and W. W. Thomson, Trinidad, B.W.I.—equal; 81. D. M. Bancroft, Ireland; H. F. Briggs, India; R. G. Cunningham, Galashiels; H. C. Johnston, South Africa; Alfred Leitch, Scotland; W. J. Macnab, Scotland; K. W. D. Macrae, England; J. L. H. Paterson, Dumbarton; Andrew Reswick, Scotland; and J. M'D. Ross, Birnam—equal; 91. E. H. Black, England; Richard Davidson, Scotland; Robert Fraser, Scotland; J. E. Gordon, Edinburgh; R. P. M'Morland, Glasgow; and H. B. Porteous, Dumfries—equal; 97. T. H. Dickson, Dundee; J. G. Fleming, England; J. H. Lamb, England; and E. D. Simson, Edinburgh—equal; 101. S. G. Corner, Inverness; John M'Gilchrist, Birkenhead; W. G. Rivers, England; Z. M. H. Ross, Benhar; W. J. P. Sutherland, Wick; H. Hay Thorburn, Scotland; and H. M. Vickers, Jamaica—equal.

SENIOR "AITKEN CARLYLE" BURSARY awarded to A. M'Tier Pirrie.

For the JUNIOR "JOHN AITKEN CARLYLE" BURSARY in *Anatomy and Chemistry*, Claude Pycroft, England, has been recommended.

The "MACKENZIE" BURSARIES FOR PROFICIENCY IN DISSECTING were awarded to:—A. C. M'Master, New Zealand; D. W. Sibbald, New Zealand; A. S. Paterson, Scotland; A. M'Tier Pirrie, Edinburgh.

The following gentlemen acted as Prosectors to the Class:—

A. G. Coullie, Pencaitland; William J. Fraser, Ceylon; G. F. S. Landon, England; W. A. Wilson-Smith, Berwickshire.

DAVID HEPBURN, M.D., *Lecturer.*

WM. TURNER, K.C.B., M.B., *Professor.*

#### PHYSIOLOGY.

##### SENIOR DIVISION.

FIRST-CLASS HONOURS.—1. James Craw, Berwickshire; 2. E. Henderson, M.A., Ayr; 3. James Lochhead, M.A., Earlston (*Medallists*); 4. David Brown, Roxburghshire, and Arthur C.

Strain, Blairgowrie—equal; 6. Arthur W. Madson, Portobello, and G. D. Mathewson, Scotland—equal; 8. W. J. Fraser, Ceylon; 9. G. S. Landon, Brazil, and Hugh A. Stewart, Blair Atholl—equal; 11. Robert Donaldson, M.A., Dalkeith; A. D. M'Callum, England; A. MacRae, M.A., Scotland; L. S. Milne, Montrose; and W. M. Mumby, England—equal; 16. T. H. Easton, Wigtownshire; H. M. Gillespie, Kirkgunzeon; H. Macintyre, Scotland; T. B. Mouat, Haddington; and C. Johnston Smith, Edinburgh—equal; 21. W. A. Wilson-Smith, Scotland; 22. A. N. Fraser, Scotland; 23. E. A. Elder, M.A., Edinburgh; A. Oliver, Edinburgh; and D. P. D. Wilkie, Kirriemuir—equal.

SECOND-CLASS HONOURS.—26. John Jardine, Scotland; 27. A. S. L. Biggart, West Hartlepool; and F. R. Sinton, Scotland—equal; 29. D. P. Marais, South Africa; 30. G. Cunningham, Scotland; J. M. Graham, Edinburgh; and G. H. Ussher, New Zealand—equal; 33. D. H. C. Macarthur, Wakefield; and Alex. Stephen, Scotland—equal; 35. J. M. Beyers, South Africa, and W. Jarvis, Edinburgh—equal; 37. W. P. Beattie, Glasgow; A. R. Berrie, India; and M. M. Mamourian, Smyrna—equal; 40. John Kirk, Edinburgh, and L. H. Skene, Scotland—equal; 42. E. A. Aylward, England; L. H. I. Bell, Edinburgh; H. Marshall Thompson, Yorkshire; and R. S. Enever-Todd, M.A., Musselburgh—equal; 46. W. D. Boswell, Norfolk; W. H. Forsyth, Scotland; and W. Bruce Wishart, Scotland—equal; 49. R. G. W. Adams, New Zealand; A. W. Hogg, Scotland; G. P. Joy, England; and F. A. Wille, South Africa—equal; 53. T. E. Coulson, Lincolnshire; G. T. Drummond, Scotland; and Patrick Steele, Scotland—equal; 56. W. W. Greer, Queensland, and J. M. Lauder, Scotland—equal; 58. A. G. Coullie, Scotland, and Noel C. Forsyth, Scotland—equal; 60. R. A. Chapman, England; Alan G. Cook, India, and James Mackenzie, Scotland—equal; 63. J. M. Barkley, Ireland; 64. A. J. Lewis, India; 65. F. T. Bowerbank, Penrith, and D. M. C. Church, Edinburgh—equal; 67. J. B. Lockerbie, Edinburgh, and R. J. Mackessack, Forres—equal; 69. V. T. Carruthers, India, and G. S. Clark, Scotland; 71. George Stewart and Robert H. Watt, Scotland—equal; 73. Pollok Donald, Scotland; 74. T. F. Campbell, Lancashire; J. G. Craig, Scotland; E. J. Elliot, Scotland; J. Hamilton Hume, Jedburgh; H. P. Milligan, Birkenhead; Donald S. Murray, Scotland; H. S. Reid, Scotland; R. A. L. van Someren, Straits Settlement; R. W. L. Wallace, Scotland; and W. H. Welsh—equal.

#### JUNIOR DIVISION.

FIRST-CLASS HONOURS.—1. Peter M'Ewan, M.A., Scotland; 2. James A. Gunn, Kirkwall; 3. Charles M'Neill, Scotland, and

510 *Faculty of Medicine—Class Prize and Honours Lists.*

P. Vickerman, New Zealand—equal; 5. H. E. A. Washbourn, New Zealand (*Medallists*); 6. John Smith, Ayrshire; 7. H. Brown, England; Wm. Gemmill, Scotland; W. M. Scott, Scotland; and James Young, Edinburgh—equal; 11. L. J. Howes, Natal; 12. J. P. S. Jamieson, Shetland, and A. M'Tier Pirrie, Edinburgh—equal; 14. Thomas Davidson, Scotland; 15. W. J. Maloney, Scotland, and R. Clive Walker, Scotland—equal; 17. George Hadden, Ireland; Arthur Olivierre, Trinidad; Thomas E. Roberts, Scotland; W. J. B. Selkirk, Scotland; F. J. G. Tocher, Scotland; and Basil H. Watt, M.A., Scotland—equal.

SECOND-CLASS HONOURS. — 23. Duncan M'F. Barker, Scotland; John Chisholm, Scotland; T. A. M'Gibbon, New Zealand; and A. C. M'Master, New Zealand—equal; 27. A. G. Anderson, Scotland; Wm. Lumsden, England; E. S. Massiah, British Guiana; W. G. Robertson, Scotland; and Oliver Smith, Lincoln—equal; 32. F. E. Field, British Guiana; F. H. Somers Gardner, Southsea; J. R. Holgate, England; S. Kark, Cape Colony; John Lindsay, London; J. A. Loughridge, Ireland; Kenneth W. M'Kenzie, India; and N. N. G. C. M'Vean, Scotland—equal; 40. H. P. Cook, Scotland; H. A. Edwards, Motherwell; and John P. Harmer, Scotland—equal; 43. W. M. Hewetson, Appleby, and J. C. Holm, Scotland—equal; 45. J. M. Dickson, Scotland; A. J. R. O'Brien, England; J. E. W. Rousseau, Cape Colony; and H. C. Wilson, Scotland—equal; 49. J. A. Cruickshank, Scotland; E. M. Simmers, Ramsgate; and H. G. Sutherland—equal; 52. S. E. Martin, Ireland, and W. T. Smith, Scotland—equal; 54. J. S. Mitchell, Scotland; H. Mowat, Scotland; and H. E. Rawlence, England—equal; 57. Francis Aitken, Scotland; 58. George Blair, Scotland; J. S. Caldwell, Scotland; Alex. Mathieson, Scotland; H. D. Robb, Dumfries; and Andrew Wight, Scotland—equal; 63. W. Collins, India; A. C. Pickering, England; W. E. Reynolds, Portugal; and V. S. Vallathan, India—equal; 67. F. W. Cragg, England; John C. Grieve, Scotland; A. S. Hendrie, Scotland; H. B. Morris, Dunfermline; J. I. Shepherd, Scotland; and D. W. Sibbald, New Zealand—equal; 73. J. C. D. Allan, India; R. S. Frew, Newfoundland; and R. R. Murray, India—equal; 76. H. M. Cargin, Ireland; J. F. James, J. R. Kerr, Edinburgh; and J. T. Young, Cape Colony—equal; 80. E. J. Black, Scotland; 81. C. E. Elliston, England; F. Otto Inglis, Peebles; and H. C. Weber, British Guiana—equal; 84. D. G. Gray, Ireland; H. S. A. Hogg, Selkirk; and R. E. Moyes, Largs—equal; 87. A. M'Gregor Black, Australia, and E. G. Deverell, Cornwall—equal; 89. D. P. Blair, Scotland; D. C. Crole, Scotland; F. Jung, Hyderabad; D. L. Morrison, Scotland; E. B. Munro, India; Graham Robertson, Scotland; T. Scoresby-Jackson, London; H. G. Smith, Ireland; S. Alwyn Smith, England;

and E. Valenzia, Malta—equal; 99. L. P. M. Gardner, Edinburgh, and A. J. Miller, Ceylon—equal; 101. George Banks, Scotland; 102. A. C. Alport, South Africa; C. G. A. Chislett, Scotland; R. E. N. Newman, Ireland; and Edward Swan Simpson—equal.

Unavoidably absent from one examination.

SECOND-CLASS HONOURS.—J. M. Grant, Inverness.

### EXPERIMENTAL PHYSIOLOGY.

FIRST-CLASS HONOURS.—1. D. M. Mathieson, Scotland; 2. H. B. Morris, Dunfermline; 3. A. G. Anderson, Scotland; 4. D. M. Smith, Scotland (*Medallists*). Also the following gentlemen (names arranged alphabetically):—A. C. Alport, South Africa; D. M'F. Barker, Scotland; H. Brown, England; T. Graham Brown, Scotland; John Chisholm, Scotland; F. E. Field, British Guiana; R. S. Frew, Newfoundland; Wm. Gemmill, M.A., Scotland; John M. Grant, Scotland; J. A. Gunn, Scotland; R. Lloyd Jones, Wales; J. M. Lauder, Scotland; Jas. Lindsay, Scotland; Jas. A. Loughridge, Ireland; A. J. R. O'Brien, Shropshire; R. S. Orbell, New Zealand; A. M'T. Pirrie, Edinburgh; Geo. Raffan, Australia; G. Y. Richardson, Scotland; T. E. Roberts, Scotland; J. R. Robertson, Queensland; D. W. Sibbald, New Zealand; R. B. Thomson, Scotland; E. Valenzia, Malta; A. N. J. Vizarat, Hyderabad; B. H. Watt, M.A., Scotland.

SECOND-CLASS HONOURS.—(names arranged alphabetically)—D. C. Alexander, Selkirk; Norman Black, Scotland; C. E. Blair, Ireland; J. W. Cairns, Scotland; J. S. Caldwell, Mid-Calder; H. M. Cargin, Ireland; H. P. Cook, Scotland; J. M. Dickson, Scotland; D. Eakin, Ireland; E. A. Elder, Scotland; H. S. Gaskell, Peterborough; D. G. Gray, Ireland; Joseph Green, England; Joseph Ings, New Zealand; Wm. Jarvis, Scotland; J. T. G. Jones, Wales; John Lindsay, London; Wm. MacConaghy, India; J. M'Gilchrist, Birkenhead; J. F. Mackay, Scotland; Jas. Mackenzie, Scotland; W. R. Mackenzie, Ireland; M. M'Kinnon, Portree; A. C. M'Master, New Zealand; S. M'Naughton, England; C. M'Neil, Scotland; A. S. M'Tavish, Scotland; A. W. Madsen, Scotland; W. J. Maloney, Scotland; G. O. Marke, Sierra Leone; D. L. Morrison, Scotland; R. E. Moyes, Largs; E. B. Munro, India; R. R. Murray, India; R. E. U. Newman, Ireland; H. J. Norman, England; D. H. Paul, Roxburgh; H. E. Rawlence, Salisbury; D. G. Reid, Wigtown; H. D. Robb, Dumfries; W. G. Robertson, Scotland; John I. Shepherd, Scotland; A. van Someren, Straits Settlements; H. M. Souzier, Mauritius; H. G. Smith, Ireland; John Smith, Ayrshire; S. A. Smith, England; W. T. Smith, Scotland; H. G. Sutherland, F. L. de Verteuil, Martinique; G. H. Winch, England;

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R. M. Wishart, Scotland ; Jas. Young, Edinburgh ; J. T. Young, Scotland.

### CHEMICAL PHYSIOLOGY.

FIRST-CLASS HONOURS.—1. M. L. Cohen, B.A., and A. W. Madsen—equal (*Medallists*) ; 3. James Craw and J. D. Sinclair—equal ; 5. D. Brown and F. de Venteuil—equal ; 7. W. W. Greer ; 8. R. B. Barnetson, James Lochhead, M.A., William Munby, and W. A. Wilson Smith—equal ; 12. D. W. Boswell, E. A. Elder, M.A., William Jarvis, and R. J. Mackosack ; 16. A. D. MacCallum ; 17. D. M. C. Church, A. M'Rae, M.A., and K. A. Moody Stuart—equal ; 20. T. H. Easton, J. M. Graham, D. P. Marais, D. S. Murray, and J. I. Shepherd—equal ; 25. R. Donaldson, M.A., F. H. S. Gardner, and K. N. A. Inniss—equal ; 28. R. van Someren and P. Steele—equal ; 30. W. J. Burns, Selkirk ; 31. A. M'T. Pirrie and A. N. J. Vizarat ; 33. T. B. Mouat ; 34. J. D. Harmer ; M. Mamourian, and G. H. Ussher—equal ; 37. A. R. Berrie, N. J. H. Gavin, H. P. Milligan, A. O. P. Reynolds, and L. H. Skene—equal ; 42. T. P. Campbell ; 43. G. Cunningham, C. Edmonston, and R. W. L. Wallace—equal ; 46. D. T. Anderson, L. S. Milne, C. D. O'Neil, and W. B. Wishart—equal ; 50. H. R. Macintyre ; 51. W. H. Forsyth.

SECOND-CLASS HONOURS.—52. J. R. Flament, John Kirk, and C. S. Ryles—equal ; 55. J. B. Mears, G. Ormrod, G. Stewart, and D. P. D. Wilkie—equal ; 59. G. G. Bartholomew, W. J. Fraser, and A. Oliver—equal ; 62. A. J. Lewis, Pollok Donald, A. C. Strain, and B. H. Watt—equal ; 66. J. W. H. Babington, G. T. Drummond, G. S. Landon, H. A. Stewart, and R. H. Watt—equal ; 71. N. C. Forsyth, T. Graham Brown, J. T. Gunn, and C. J. Smith—equal ; 75. L. H. I. Bell, H. M. Gillespie, E. Henderson, M.A., A. W. Hogg, J. H. H. Joubert, J. P. M'Gowan, M.A., and H. S. Reid—equal ; 82. Allan Cook, V. Moralejo, and J. Robinson—equal ; 85. A. S. L. Biggart, T. E. Carlyle, W. Martin, J. G. B. Shaw, and F. A. Wille—equal ; 90. F. J. Luck, E. H. Smith, and G. H. Winch—equal ; 93. W. P. Beattie, G. J. E. Groves, J. Jardine, and H. M. Thomson—equal ; 97. F. Baillie, J. M. Barkley, J. Clarke, E. J. Griffiths, W. W. Johns, and G. Ritchie—equal ; 103. G. Y. Richardson and D. M. Whittell—equal ; 105. A. N. Fraser ; 106. J. B. Lockerbie ; 107. Douglas Bell, and T. Robertson—equal.

E. A. SCHÄFER, LL.D., *Professor.*

### MATERIA MEDICA.

FIRST-CLASS HONOURS.—1. James Lochhead, Earlston ; 2. E. Henderson, M.A., Ayrshire ; 3. John P. M'Gowan, Carlawerock ; 4. Lindsay S. Milne, Scotland (*Medallists*) ; 5. Arthur C. Strain,



Scotland ; 6. James Craw, Berwickshire, and James B. Lockerbie, Scotland—equal ; 8. Robert B. Barnettson, Edinburgh, and George F. S. Landon, Brazil—equal ; 10. K. U. A. Inniss, Trinidad ; 11. George Cunningham, Scotland ; Thomas Henry Easton, Scotland ; and Hugh R. Macintyre, Scotland—equal ; 14. Archibald Oliver, Scotland ; 15. Philip A. Harry, West Indies, and Charles Duncan O'Neal, Barbadoes—equal.

SECOND-CLASS HONOURS.—17. John Jardine, Penicuik, and Donald S. Murray, Edinburgh—equal ; 19. Robert S. Enever-Todd, Edinburgh ; Archibald D. M'Callum, England ; and David P. D. Wilkie, Scotland—equal ; 22. Thomas B. Mouat, Haddington ; William M. Munby, England ; Fred. Ritchie Sinton, Scotland ; and Hugh A. Stewart, Scotland—equal ; 26. Alexander G. Coullie, Scotland, and William J. Fraser, Ceylon—equal ; 28. J. W. Herbert Babington, Ireland ; John M. Beyers, Cape Colony ; David Brow, Roxburghshire ; William Jarvis, Scotland ; Alexander MacRae, M.A., Scotland ; and David P. Marais, South Africa—equal ; 34. Alastair N. Fraser, Scotland ; 35. Hope M. Gillespie, Kirkgunzeon, and William Bruce Wishart, Scotland—equal ; 37. Russell G. Adams, New Zealand, and W. A. Wilson Smith, Scotland—equal ; 39. Arnold S. M. Biggart, England ; James M. Graham, Scotland, and Charles J. Smith, Edinburgh—equal ; 42. K. S. Moody-Stuart, Scotland ; 43. Samuel A. M'Clintock, Londonderry, and Ronald G. S. Orbell, New Zealand—equal ; 45. William P. Beattie, Glasgow, and Douglas Bell, Barrow-in-Furness—equal ; 47. James M. Barkley, Ireland ; L. Fourie, Cape Colony ; and William W. Greer, Queensland—equal ; 50. Alexander R. Berrie, India ; Edward J. Elliot, Scotland ; Donald H. C. MacArthur, Edinburgh ; Alexander Stephen, Dunfermline ; and Fred. A. Wille, Cape of Good Hope—equal ; 55. Ernest A. Aylward, England ; 56. Vincent T. Carruthers, India, and Graham T. Drummond, Scotland—equal ; 58. Thomas F. Campbell, England ; William Henry Forsyth, Scotland ; John H. Hume, Jedburgh ; John Kirk, Scotland ; Charles S. Ryles, India ; James D. Sinclair, Derby ; and Leslie H. Skene, Scotland—equal ; 65. Richard A. Chapman, England, John Grieve, Edinburgh ; and Alexander W. Hogg, New Zealand—equal ; 68. Fred. T. Bowerbank, England ; Alan G. Cook, India ; Geoffrey Cowan, Edinburgh ; James Mackenzie, Scotland ; Robert J. Mackessack, Forres ; Hugh Smith Reid, Scotland ; Joseph Robinson, B.Sc., England ; Archibald Simpson, Scotland ; Herbert M. Thompson, England ; and Robert H. Watt, Scotland—equal ; 78. M. M. Mamourian, Smyrna, and George Stewart, Lasswade—equal ; 80. Charles Gordon Edmonston, Scotland ; Noel J. H. Gavin, New Zealand ; Ernest J. C. Groves, India ; Arthur J. Lewis, India ; Garfield Ormerod, England ; Robert W. L. Wallace, Scotland—equal ; 87. Edward A. Elder, Scotland ; Jan. H. H. Joubert,

Cape of Good Hope ; and George H. Ussher, New Zealand—equal ; 90. John G. B. Shand, Scotland ; Emile H. Smith, Trinidad ; and John Morris, Wales—equal ; 93. John W. Cathles, Scotland, and Charles L. Eyles, India—equal ; 95. Benjamin Baty, England ; George S. Clark, Edinburgh ; Thomas E. Coulson, England ; John Gibson Craig, Scotland ; Evan J. Griffiths, Wales ; James T. Gunn, Scotland ; Arthur O. P. Reynolds, England ; and J. Douglas Wells, Chelmsford—equal.

Jules M. R. Flament was absent from one examination on account of illness ; in two examinations he obtained First-Class Honours. Dudley W. Boswell, Alfred Malseed, and George D. Mathewson, absent for the same reason, obtained Second-Class Honours in two examinations.

### PRACTICAL MATERIA MEDICA.

SECOND-CLASS HONOURS.—M. L. Cohen, Canada.

THOMAS R. FRASER, M.D., *Professor.*

### PATHOLOGY.

FIRST-CLASS HONOURS.—1. Cameron R. Gibson, M.A., Carlisle ; 2. James M. Kirkness, Edinburgh ; 3. Robert A. Chambers, Scotland, and Robert Veitch, Scotland—equal (*Medallists*) ; 5. William C. Morton, M.A., Trinidad ; 6. John H. Kay, Scotland, and Grahame H. Skinner, Scotland—equal ; 8. J. Dudgeon Giles, Edinburgh ; A. A. Hall, M.A., Scotland ; and D. Duncan Paton, Scotland—equal.

SECOND-CLASS HONOURS.—11. G. H. S. Milln, Scotland ; 12. John Tait, B.Sc., Orkney ; 13. J. Allan Anderson, Scotland ; J. A. Ross, Perth ; J. A. Roux, Cape Colony ; and N. C. Rutherford, England—equal ; 17. J. M. Dewar, Scotland ; G. J. Fairie, Bridge of Allan ; James Girdwood, Scotland ; Thomas Nicol, Scotland ; and Henry Speirs, Scotland—equal ; 22. D. M'Kenzie Newton, Scotland ; Thomas Peebles, Edinburgh ; and R. Mainwaring White, England—equal ; 25. H. S. Davidson, Melrose, and J. A. Pottinger, Orkney—equal ; 27. James Donaldson, Scotland ; C. D. Lochrane, Scotland ; J. M. Lovett, England ; Alex. Lundie, B.Sc., Fife ; and E. A. Turpin, Tobago—equal ; 32. John Fortune, Scotland ; 33. C. S. Crichton, Scotland ; A. M. Dryden, Scotland ; C. R. F. Hartley, England ; Henry MacCormac, Ireland ; and J. Henderson Smith, Scotland—equal ; 38. D. C. Addison-Scott, Scotland ; 39. J. M. Darling, Edinburgh ; A. C. Devereux, England ; John Finlay, New Zealand ; A. F. Hughes, Grenada ; R. W. Johnstone, Scotland ; J. C. Keir, England ; J. A. L. Wallace, Aberdeenshire ; and W. D. Wright, London—equal ; 47. Charles M. Begg, New Zealand ; Thomas

C. Blackwell, England; Angus Buchanan, Scotland; J. W. Keay, Scotland; Ian M. Macrae, Edinburgh; H. C. Martin, Ireland; E. Muir, Scotland; and Louis Turiansky, Scotland—equal; 55. N. D. Mackay, Scotland; G. J. Moriarty, England; H. L. Munro, England; and D. J. Scott, Scotland—equal; 59. J. M. Johnston, Scotland; J. Easton Scott, England; and Arthur Dangerfield, Edinburgh—equal; 62. G. W. Harty, New Zealand; J. P. Du Toit, South Africa; and C. Hawkins Craig, Scotland—equal; 65. G. Cranston Anderson, U.S.A.; T. A. Mackenzie, Scotland; C. R. P. Mitchell, Scotland; and J. Ewan Taylor, Scotland—equal; 69. Harry Caird, Scotland; William MacLaren, Arbroath; William Sanderson, Scotland; and J. O. Heyns, South Africa—equal; 73. G. L. Brunton, Wales; C. E. Dumanoire, Trinidad; J. M. Glasse, Edinburgh; F. H. Gibson, England; and L. A. H. Lack, B. W. Indies—equal; 78. R. W. Craig, Scotland; W. B. Cullen, Carlisle; J. R. M'Gregor, South Africa; G. S. Mackay, Scotland; and Wm. Mackenzie, Scotland—equal; 83. F. T. C. Linton, Scotland, and L. Ram, India—equal; 85. John Brennan, Ireland; Alex. Gray, Scotland; A. E. Hodgson, Yorkshire; and R. M. Walker, Scotland—equal; 89. J. B. M'Neill, Scotland; P. W. Mason, New Zealand; G. J. Wentzel, South Africa; and G. W. Young, London—equal; 93. R. T. G. Aickin, New Zealand; S. Burns, M.A., Ayr; T. P. Caverhill, Berwick-on-Tweed; A. S. Gordon, Scotland; A. G. Middleton, India; and C. F. A. Oberländer, South Africa—equal.

Absent (through illness) from one examination.

Second-Class Honours.—R. W. S. Watkins, Wales; D. E. Derry, England; H. N. Fletcher, England; Leonard West, England.

## PRACTICAL PATHOLOGY.

### SENIORS.

FIRST-CLASS HONOURS.—1. J. M. Glasse, Scotland.

SECOND-CLASS HONOURS.—2. G. S. Husband, B. W. Indies.

### JUNIORS.

SECOND-CLASS HONOURS.—J. M. Darling, Scotland; H. C. Gibson, Orkney.

W. S. GREENFIELD, M.D., *Professor.*

## MEDICINE.

### SENIOR DIVISION.

FIRST-CLASS HONOURS.—1. C. H. Bösenberg, Cape Colony; 2. R. E. Collins, India; 3. W. E. Marshall, Scotland, and J. M.

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Smith, Scotland—equal (*Medallists*); 5. S. Gilford, England, and H. M. Stumbles—equal; 7. J. Fairbairn, British Guiana, and C. J. Shaw, Scotland—equal; 9. R. C. Low, Scotland; 10. T. M. Cuthbert, British Honduras, and J. Dommissé, Cape Colony—equal; 12. D. R. MacGregor, B.Sc., Dunfermline; D. P. Gail, India; and E. J. Morton, Edinburgh—equal; 15. R. P. M'Neil, Stranraer; 16. E. Cameron, England; 17. P. Mathews, England, and J. Wier, Ireland—equal; 19. F. R. Bremner, M.A., Scotland; 20. M. Holmes, Scotland, and J. K. Matheson, Scotland—equal; 22. W. Hume, Australia, and S. A. Moore, New Zealand—equal; 24. J. R. Bosman, Cape Colony, and J. C. London, Trinidad—equal; 26. A. Brownlie, Scotland; A. J. Rowan, Cape Colony; and J. Scobie, Scotland—equal; 29. B. Blacklock, Scotland; A. W. Hauman, Cape Colony; E. Macmillan, Scotland; J. G. M'Caughey, Ireland; H. Overy, England; J. H. Paterson, Ceylon; J. S. Sewell, England; H. P. Thompson, Lincolnshire; and A. B. M. Thomson, Scotland—equal; 38. J. Arthur, England; G. A. Gray, India; A. W. Harvey, Nova Scotia; J. M. Johnstone, Scotland; G. M'Neill, Scotland; E. L. Steyn, Cape Colony; and J. F. de Villiers, Cape Colony—equal.

SECOND-CLASS HONOURS.—45. N. F. M'Hardy, Linlithgow; 46. G. M. Brunton, Scotland; D. G. Carmichael, Calcutta; L. A. Drake, England; A. Leach, England; and A. H. Rabagliati, England—equal; 51. J. Hunter, Musselburgh; J. Ivey, India; A. M. Moll, South Africa; A. S. Parker, England; and H. Porter, Ireland—equal; 56. G. Henderson, Scotland, and A. B. Leakey, England—equal; 58. A. Grant, Scotland; R. S. Munro, England; and [A. B. dos Remedios, Goa—equal; 61. M. W. Smart, Edinburgh; 62. G. B. Brand, Scotland; A. M. Caverhill, Scotland; A. Gillespie, Scotland; and G. Wight, Scotland—equal; 66. J. G. Briggs, India, and R. E. Russell, Cape Colony—equal; 68. A. Hutley, England; 69. G. S. Blandy, England; J. Dunlop, Lanark; W. MacDonald, Scotland; R. H. Martin, Ireland; P. Vickers, Jamaica; and J. A. L. Wallace, Scotland—equal; 75. R. G. Gordon, Scotland, and E. L. Meynell, India—equal; 77. D. Mackinnon, Scotland; J. J. M'Millan, Scotland; and D. R. Rees, Wales—equal; 80. J. H. C. Orr, Scotland; 81. E. E. Cassaday, Scotland, and A. Robertson, Scotland—equal; 83. C. Nelson, Scotland; 84. G. C. Trotter, Scotland; 85. A. P. R. Fennell, Cape Colony; 86. M. J. Ali Khan, India; 87. G. A. Davies, England.

### JUNIOR DIVISION.

FIRST-CLASS HONOURS.—1. R. A. Chambers, Scotland; 2. R. Veitch, Scotland; 3. L. A. H. Lack, Trinidad, and J. Tait, B.Sc., Orkney—equal (*Medallists*); 5. C. R. F. Hartley, England, and G. H. S.

Miller, Scotland—equal ; 7. C. R. Gibson, Scotland ; 8. J. M. Kirkness, Scotland, and D. M'K. Newton, Scotland—equal ; 10. A. A. Hall, M.A., Scotland, and H. Speirs, Scotland—equal ; 12. T. Peebles, Scotland ; 13. T. Nicol, Scotland ; J. A. Ross, Scotland ; and W. Sanderson, Scotland—equal ; 16. J. A. Pottinger, Orkney, and G. H. Skinner, Scotland—equal ; 18. W. C. Morton, Trinidad ; 19. R. W. Craig ; J. M. Dewar, Scotland ; A. M. Dryden, Scotland ; A. F. Hughes, Grenada ; and P. W. Mason, New Zealand—equal ; 24. C. M. Begg, New Zealand ; R. Buchanan, Scotland ; A. C. Devereux, England ; J. Girdwood, Scotland ; and W. S. Milne, India—equal ; 29. J. Allan, Scotland ; C. Dumanoire, Trinidad ; J. Fortune, Scotland ; A. Lundie, B.Sc., Scotland ; H. MacCormac, Ireland ; J. B. M'Neili, Scotland ; and E. A. Turpin, Tobago—equal ; 36. T. C. Blackwell, Harrow ; J. W. Keay, Scotland ; H. L. Munro, England ; and D. D. Paton, Scotland—equal.

SECOND-CLASS HONOURS.—40. C. Crichton, Scotland ; J. M. Johnston, Scotland ; W. MacLaren, Scotland ; and E. Muir, Scotland—equal ; 44. A. G. Middleton, India ; 45. W. B. Cullen, England ; H. S. Davidson, Melrose ; and G. J. Farie, Scotland—equal ; 48. A. Buchanan, Scotland ; F. H. Gibson, England ; and N. C. Rutherford, England—equal ; 51. H. Caird, Scotland ; L. Turiansky, Scotland ; and J. H. D. Webster, Scotland—equal ; 54. S. Burns, M.A., Ayr, and D. Jobson Scott, Scotland—equal ; 56. J. Donaldson, M.A., Scotland ; R. W. Johnstone, Scotland ; D. G. A. Scott, Scotland ; and J. E. Scott, England—equal ; 60. G. W. Armstrong, Wales ; G. J. Moriarty, India ; C. F. Obërlander, Cape Colony ; and J. M. Lovett, England—equal ; 64. A. E. Hodgson, England ; 65. J. H. Kay, Scotland ; J. E. Taylor, Scotland ; and T. T. Thomson, India—equal ; 68. W. H. Simpson, New Zealand, and C. H. Craig, Scotland—equal ; 70. J. C. Keir, England, and F. W. Lundie, Cape Colony—equal ; 72. F. B. Fletcher, England ; T. A. Mackenzie, Scotland ; C. E. S. Mitchell, Scotland ; and W. H. Robertson, Scotland—equal ; 76. F. C. Linton, Scotland, and H. J. Stewart, Australia—equal ; 78. A. Gray, Scotland, and G. W. Harty, New Zealand—equal ; 80. A. S. Gordon, Scotland ; R. L. Henderson, Queensland ; W. Mackenzie, Scotland ; T. H. Mackinnon, England ; and L. C. Robinson, Valetta—equal ; 85. J. M. Darling, Edinburgh, and S. A. Johnston, Ireland—equal ; 87. D. Allison, Scotland ; F. H. Dickson, Scotland ; A. G. Glass, Scotland ; and W. J. D. Robertson, Scotland—equal ; 91. W. S. Robertson, Scotland ; J. M. Taylor, Scotland ; and D. C. Welsh, Scotland—equal ; 94. G. L. Brunton, England, and W. Readman, England—equal ; 96. J. Lindsay, New Zealand, and L. West, England—equal ; 98. N. C. Fisher, Scotland, and J. O. Heyns, Cape Colony—equal ; 100. J. M. Glasse, Scotland ; M. C. Cowper, Scotland ; and G. J.

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Wentzel, Cape Colony—equal; 103. R. T. G. Aicken, New Zealand; 104. M. Ashkenazie, Roumania, and F. G. Saleeby, Palestine—equal.

J. WYLLIE, M.D., *Professor.*

MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN.

- FIRST-CLASS HONOURS.—1. B. P. Watson, Scotland; 2. R. C. Low, Scotland; 3. C. J. Shaw, Scotland; 4. T. B. Hamilton, Scotland (*Medallists*); 5. C. H. Bösenberg, Cape Town, and A. B. Ross, M.A., Scotland—equal; 7. Sidney Gilford, England; D. P. Goil, India; and D. N. W. Murray, New Zealand—equal; 10. H. J. Dunbar, Scotland; S. A. Ellerbek, Denmark; James S. Elliott, New Zealand; Paul Mathews, England; and T. W. E. Ross, London—equal; 15. C. M. Campbell, M.A., B.Sc., Scotland; James Kirkwood, Edinburgh; William Lilico, Ireland; and Henry H. Robarts, England—equal; 19. Henry Herd, M.A., Scotland; William E. Marshall, Perth; and S. A. K. Wilson, M.A., U.S.A.—equal; 22. Mathew Holmes, Scotland; R. W. Johnstone, Scotland; W. F. Macdonald, Scotland; and J. K. Matheson, Dingwall—equal; 26. F. Inglis Dawson, India, and Thomas Nicol, Scotland—equal; 28. William Hume, Australia, and J. Scott Sewell, England—equal; 30. David R. MacGregor, B.Sc., Scotland; 31. D. M'Kenzie, Newton, Scotland; 32. D. M. Callender, M.A., Scotland; Leslie A. Drake, England; and John G. M'Caughey, Ireland—equal; 35. A. W. Montgomery Harvey, Nova Scotia, and W. F. Smeall, Scotland—equal; 37. Labbhu Ram, India; 38. Robert J. Mayberry, Ireland; Grahame H. Skinner, Scotland; and A. B. MacArthur Thomson, Dundee—equal.
- SECOND-CLASS HONOURS.—41. H. Lovett Cumming, Scotland; A. M. Moll, Orange Free State; and J. Politachi, England—equal; 44. G. A. Davies, England; John F. Haegert, India; Robert P. M'Neil, Scotland; and John Wier, Ireland—equal; 48. Theodore Martin Cuthbert, British Honduras; A. O. Hooper, England; and William Sanderson, Scotland—equal; 51. Andrew Grant, Scotland; Alexander Lundie, B.Sc., Scotland; and P. Vickers, Jamaica—equal; 54. R. Dods Brown, Edinburgh; C. H. Houghton, Ireland; James C. Loudon, Trinidad; and Henry Speirs, Scotland—equal; 58. Herdman Porter, Ireland; J. A. Raubenheimer, Cape Colony; E. S. Sharpe, Ireland; and Herbert P. Thompson, Lincolnshire—equal; 62. A. B. dos Remedios, Goa; James S. E. Robertson, England; and Andrew James Rowan, Cape Colony—equal; 65. Robert Elder Russell, Cape Town, and J. Martin Smith, Scotland—equal; 67. James Girdwood, Scotland; 68. Archibald Brownlie, Scotland; J. Dunlop, Lanark; Gilbert J. Farie, Scotland; C. R. F. Hartley, England; and James A.



Ross, Scotland—equal; 73. John Allan, Scotland; John G. Briggs, India; D. G. Carmichael, Calcutta; J. Alexander Gray, India; and J. C. Keir, England—equal; 78. Alexander Gray, Scotland; W. E. Knight, Dublin; and Evan Macmillan, Scotland—equal; 81. A. R. Douglas, Scotland; J. Hugh Jones and R. S. Munro, England—equal; 84. George W. Armstrong, Wales; Mahomed Ashruff, India; C. E. Dumanoire, Trinidad; and William MacLaren, Arbroath—equal; 88. R. A. Chambers, Scotland; James Donaldson, Scotland; T. Gowans, England; and F. W. Lundie, Cape Colony—equal; 92. J. M. Dewar, Scotland; W. Godfrey, Mauritius; E. L. Meynell, India; Edward J. Morton, Scotland; J. J. Redhead, Venezuela; James Scobie, Scotland; Morton W. Smart, Edinburgh; and J. Ewen Taylor, Scotland—equal; 100. C. M. Ashkenazie, Roumania; Alexander Kidd Baxter, Scotland; and John M. Lovett, England—equal; 103. James Arthur, England; George Bell Brand, Scotland; and Crawford S. Crichton, Arbroath—equal; 106. Roland T. G. Aickin, New Zealand; Daniel Allison, Scotland; Samuel Burns, M.A., Ayr; A. Stewart Gordon, Scotland; George Henderson and Charles Nelson, Scotland—equal; 112. William Blackwood, Peebles; Angus Buchanan, Scotland; Harry Caird, Scotland; A. P. Coskey, Cape Colony; John Hunter, Musselburgh; and G. H. S. Miller, Scotland—equal; 118. Fred T. C. Linton, M.A., Scotland; David Sandler and G. D. Sloan, England—equal; 121. G. G. Buchanan, Scotland; C. W. V. Rutherford, Scotland; and George Wight, Scotland—equal; 124. D. Mackinnon, Scotland; J. Easton Scott, M.A., England; and George Clark Trotter, Scotland—equal; 127. Thomas C. Blackwell, England; Robert Buchanan, Scotland; A. P. R. Fennell, Cape Colony; and Philip Hallam, Sheffield—equal.

The following gentlemen were unavoidably absent from one examination:—

FIRST-CLASS HONOURS.—Harry Overy, England.

SECOND-CLASS HONOURS.—Frederick R. Bremner, M.A., Scotland; A. M. Dryden, Scotland; J. H. C. Orr, Scotland; David Sutherland, Scotland. A. R. SIMPSON, M.D., *Professor*.

## SYSTEMATIC SURGERY.

### SENIORS.

FIRST-CLASS HONOURS.—1. C. H. Bösenberg, Cape Town; 2. Mathew Holmes, Scotland (*Medallists*); 3. W. E. Marshall, Perth; C. J. Shaw, Perthshire; and H. M. Stumbles, England—equal; 6. T. B. Hamilton, Melrose.

SECOND-CLASS HONOURS.—7. Archibald Brownhill, Scotland, and A. J. Rowan, Cape Colony—equal; 9. John Weir, Ireland;

## 520 *Faculty of Medicine—Class Prize and Honours Lists.*

10. George M'Neill, Scotland ; 11. G. B. Brand, Bathgate ; 12. R. T. Young, Scotland ; 13. George Henderson, Scotland ; 14. L. A. Drake, England ; 15. A. S. Parker, England ; 16. E. Macmillan, Edinburgh ; 17. W. E. Knight, Dublin ; 18. J. Dunlop, Lanark, and S. Walker-Maclean, Ireland—equal ; 20. David Sandler, Russia ; 21. G. Clark-Trotter, Scotland ; 22. A. B. M. Thomson, Dundee ; 23. John G. M'Caughy, Ireland.

### JUNIORS.

FIRST-CLASS HONOURS.—1. William Gemmill, Scotland ; 2. William M. Scott, Scotland ; 3. H. E. A. Washbourn, New Zealand ; 4. J. M. Dickson, Scotland (*Medallists*) ; 5. D. M'F. Barker, Scotland ; 6. D. C. Crole, Fife, and John Smith, Ayrshire—equal ; 8. George Hadden, Ireland ; Charles M'Neil, M.A., Stranraer ; and John Mathewson, Dunfermline—equal ; 11. William Lumsden, Ireland ; Peter M'Ewan, M.A., Perthshire ; J. S. Mitchell, Scotland ; and James Young, Edinburgh—equal ; 15. R. S. Frew, Newfoundland ; K. W. Mackenzie, India ; and Oliver Smith, England—equal ; 18. A. J. R. O'Brien, Shropshire, and H. G. Sutherland, Glasgow—equal.

SECOND-CLASS HONOURS.—20. J. W. Cairns, Scotland, and W. J. Maloney, Scotland—equal ; 22. T. Davidson, Scotland ; T. A. MacGibbon, New Zealand ; D. F. Mackenzie, Hereford ; A. I. Miller, Ceylon ; and E. M. Simmers, Ramsgate—equal ; 27. H. P. Cook, Edinburgh ; T. Campbell, Scotland ; J. A. Gunn, Scotland ; N. G. C. M'Vean, Scotland ; and W. G. Robertson, Scotland—equal ; 32. A. C. Alport, South Africa ; L. P. M. Gardiner, Edinburgh ; William M. Hewitson, England ; and S. E. Martin, Ireland—equal ; 36. John Chisholm, Scotland, and H. Mowat, Scotland—equal ; 38. T. Fraser, Scotland ; J. C. Holm, Scotland ; A. C. M'Master, New Zealand ; A. C. Pickering, England ; and D. W. Sibbald, New Zealand—equal ; 43. H. S. A. Hogg, Yarrow, and R. B. Thomson, Scotland—equal ; 45. H. F. Fenton, Doncaster ; L. J. Howes, Natal ; E. S. Massiah, British Guiana ; T. E. Roberts, Scotland ; and A. Wight, Scotland—equal ; 50. J. R. Holgate, England ; J. D. Harmer, Scotland ; J. R. Kerr, Edinburgh ; J. M. Lauder, Scotland ; J. A. R. Thomson, Scotland ; and H. C. Weber, British Guiana—equal ; 56. J. C. D. Allan, India ; E. J. Black, Scotland ; H. M. Cargin, Ireland ; C. E. Elliston, England ; and John Lindsay, London—equal ; 61. H. Brown, England ; D. G. Gray, Ireland ; S. Alwyn Smith, England ; A. G. van Someren, Straits Settlements ; and H. C. Wilson, Edinburgh—equal ; 66. J. S. Caldwell, Scotland ; H. B. Morris, Dunfermline ; H. J. Norman, England ; and E. S. Simpson, Leith—equal ; 70. R. R. Murray, India ; E. B. Munro, India ; and George Raffan, Australia—equal ; 73. F. Aitken, Scot-

land; J. Green, England; A. S. Hendrie, Scotland; G. H. Howe, Ireland; G. P. Norman, England; and J. T. Young, Cape Colony—equal; 79. A. J. Beattie, Scotland, and A. Mathieson, Scotland—equal; 81. A. G. Anderson, Scotland; George S. Banks, Scotland; R. H. Nolan, Ireland; A. S. Pater-son, Scotland; and R. C. Walker, Edinburgh—equal; 86. J. A. Cruickshanks, Scotland; L. F. Dawson, England; John M. Grant, Scotland; A. J. Harper, Ireland; J. F. Mackay, Scot-land; W. Torrance Smith, Scotland; and Basil H. Watt, Scot-land—equal; 93. R. A. Blake, South Africa; T. Scoresby Jack-son, London; and F. J. G. Tocher, Scotland—equal; 96. A. M. Macarthur, Scotland; H. E. Rawlence, England; and E. W. Vaughan, Ireland—equal; 99. D. L. Morrison, Scotland; Ian R. MacLeod, Scotland; F. W. Cragg, England; W. G. Frölich, Switzerland; D. G. Reid, Wigton; H. Stokes, India; V. A. Vijayakar, India; and C. E. Blair, Ireland—equal; 107. D. Eakin, Ireland; R. E. Moyes, Scotland; and Graham Robertson, Scotland—equal; 110. A. Ollivierre, Trinidad, and F. P. Wer-nicke, India—equal; 112. W. E. Reynolds, Portugal; 113. J. C. Grieve, Scotland; J. A. Loughridge, Ireland; H. M. Sauzier, Mauritius; T. R. Smith, Scotland; and E. Valenzie, Malta—equal; 118. S. Kark, Cape Colony; J. S. Orwin, England; D. H. Paul, Roxburgh; and H. D. Robb, Dumfries—equal.

Mr J. M. Grant was unavoidably absent from the first examination. He obtained Second-Class Honours.

## PRACTICAL SURGERY.

### SENIORS.

HONOURS.—C. J. Shaw (*Medallist*); C. H. Bösenberg (*proximi accessit*); L. A. Drake, T. B. Hamilton, A. J. Rowan, H. M. Stumbles, A. S. Parker, W. E. Marshall, A. Brownlie, J. Dunlop, M. Holmes, J. Weir.

JOHN STEVENSON, M.B., *Demonstrator*.

### JUNIORS.

HONOURS.—H. E. A. Washbourn, New Zealand (*Medallist*); William Gemmill, Scotland; J. S. Mitchell, Scotland (*Prox. Accesserunt*); A. C. Alport, South Africa; D. M'F. Barker, Scotland; E. J. Black, Scotland; J. S. Caldwell, Scotland; H. M. Cargin, Ireland; T. Campbell, Scotland; J. W. Cairns, Scotland; J. Chisholm, Scotland; H. P. Cook, Edinburgh; D. C. Crole, Fife; T. Davidson, Scotland; J. M. Dickson, Scotland; H. F. Fenton, Doncaster; W. G. Frölich, Switzerland; F. Fraser, Scotland; R. S. Frew, Newfoundland; L. P. M. Gardiner, Edinburgh; J. D. Harmer, Scotland; George Hadden, Ireland;

L. J. Howes, Natal; H. S. A. Hogg, Yarrow; J. C. Holm, Scotland; J. M. Lauder, Scotland; William Lumsden, England; Peter M'Ewan, M.A., Perthshire; T. A. MacGibbon, New Zealand; D. F. Mackenzie, Hereford; K. W. Mackenzie, India; A. C. M'Master, New Zealand; Charles M'Neil, M.A., Stranraer; N. G. C. M'Vean, Scotland; William J. Maloney, Scotland; S. E. Martin, Ireland; John Mathewson, Dunfermline; A. J. Miller, Ceylon; H. Mowat, Scotland; E. B. Munro, India; H. J. Norman, England; G. P. Norman, England; A. J. R. O'Brien, Shropshire; A. C. Pickering, England; George Raffan, Australia; Graham Robertson, Scotland; W. G. Robertson, Scotland; William M. Scott, Scotland; D. W. Sibbald, New Zealand; E. M. Simmers, Ramsgate; John Smith, Ayrshire; Oliver Smith, England; S. Alwyn Smith, A. G. Van Someren, Straits Settlements; James Young, Edinburgh; J. T. Young, Cape Colony.

GEORGE L. CHIENE, M.B., F.R.C.S., Ed.,  
*Demonstrator.*

JOHN CHIENE, C.B., M.D., *Professor.*

#### DISEASES OF THE EYE.

1. John Tait, B.Sc., Orkney (*Medallist*); 2. J. A. Pottinger, Orkney;
3. C. R. Gibson; 4. J. M. Kirkness; 5. Thomas Peebles; 6. W. C. Morton and S. Burns, M.A., Ayr—equal; 8. G. H. Skinner, H. Curwen, Wm. Mackenzie, and J. D. Giles—equal;
12. A. Dangerfield; 13. D. H. Croom, R. Veitch, H. L. Munro, and A. A. Hall—equal; 17. A. E. Hodgson, W. B. Cullen, and L. W. Lundie—equal; 20. W. Readman, A. Buchanan, and C. R. P. Mitchell—equal.

GEORGE A. BERRY, M.B., *Lecturer.*

#### DISEASES OF TROPICAL CLIMATES.

- FIRST-CLASS HONOURS.—1. J. H. Paterson, Edinburgh (*Medallist*);
2. H. Astley Knight, L.R.C.P. and S., Ed., and Dr S. Rattray, M.B., Ch.B.—equal; 4. J. Howard Roberts, Scotland; 5. Divarka P. Goil, India; 6. S. C. Roy, India; 7. William Newlands, Australia; 8. William Blackwood, Edinburgh; 9. Dugald Christie, M.R.C.P., Scotland; 10. P. O. Cremona, India; 11. Jao N. Karma, India; 12. H. Lovett Cumming, Scotland.
- SECOND-CLASS HONOURS.—13. Wilfrid E. Knight, Scotland; 14. R. E. Russell, Scotland; 15. J. Dunlop, Scotland.

The following gentlemen were absent from one examination:—

1. W. H. Dickinson, M.B., Scotland; 2. Baba M. Singh Sodhi, M.B., India.

ANDREW DAVIDSON, M.D., *Lecturer.*

DISEASES OF THE SKIN.

WINTER SESSION, 1901—FIRST-CLASS HONOURS.—1. R. C. Low, (*Prizeman*); 2. Alexander K. Baxter; 3. William M'Laren.

SECOND-CLASS HONOURS.—4. William Stuart Milne; 5. James Davidson; 6. W. B. Tannahill; 7. Thomas T. Thomson; 8. L. Turiansky; 9. Crawford Crichton.

SPRING SESSION, 1902—FIRST-CLASS HONOURS.—1. William E. Marshall (*Prizeman*).

SECOND-CLASS HONOURS.—2. Archibald Brownlie; 3. George G. Buchanan; 4. A. B. des Remedios; 5. William Blackwood.

W. ALLAN JAMIESON, M.D., *Lecturer*.

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*Faculty of Music.*

WINTER SESSION, 1901-1902.

HARMONY.

HONOURABLE MENTION CERTIFICATE.—1. Helen Home Ferguson, Stirling; 2. Bessie H. Flint, Eskbank; 3. Jannet Campbell, North Berwick.

ADVANCED HARMONY.

HONOURS CERTIFICATE.—1. William B. Moonie, Edinburgh; 2. Christina M. Watson, Edinburgh (*Medallists*); 3. Ailie J. Hope, Edinburgh; 4. Eliza M. Burt, Dunfermline.

HONOURABLE MENTION.—5. Enid Fraser Moir, Edinburgh; 6. Nellie O. Howie, Edinburgh; 7. Christine Marie Harley, Fairlie.

COUNTERPOINT.

HONOURS CERTIFICATE.—1. Christina M. Watson, Edinburgh; 2. Eliza M. Burt, Dunfermline (*Medallists*); 3. Harriet E. Simpson, Edinburgh.

HONOURABLE MENTION.—4. Nellie O. Howie, Edinburgh; 5. Christopher E. Allsopp, Edinburgh.

COUNTERPOINT AND COMPOSITION.

HONOURS CERTIFICATE.—1. John Peebles Conn, Penicuik; 2. William B. Moonie, Edinburgh (*Medallists*).

HISTORY OF MUSIC.

HONOURS CERTIFICATE.—1. William B. Moonie, Edinburgh (*Medallist*) ; 2. Margaret L. M. Low, Leith ; 3. Walter J. Dambmann, Edinburgh.

HONOURABLE MENTION. — 4. Harriet E. Simpson ; 5. Christine Marie Harley, Fairlie.

MUSICAL ANALYSIS.

HONOURS CERTIFICATE.—1. John Peebles Conn, Penicuik (*Medallist*) ; 2. William B. Moonie, Edinburgh ; 3. Walter J. Dambmann, Edinburgh ; 4. Helen Home Ferguson, Stirling.

HONOURABLE MENTION.—5. Christopher E. Allsopp, Edinburgh ; 6. Christine Marie Harley, Fairlie.

FREDERICK NIECKS, Mus.D., *Professor.*



## Benefactors of the University.

THE Revenues of the University were formerly scanty and very inadequate for the encouragement of the higher education and learning in the Scottish metropolis. Scholarships and Fellowships were unknown prior to those recently instituted, and the emoluments of several of the Chairs are still greatly inferior to those in many other Universities.

During the early period of its history, the University received a considerable number of small donations and bequests, chiefly for Bursaries. Notices of these will be found in the preceding pages, in the Histories of the University by Bower, Dalzel, and Grant, and in the Report of the Universities' Commissioners in 1830. A list of early Benefactors to the Library is given at p. 41.

By Act 1 & 2 Vict., cap. 55, the various sums of money mortgaged in the hands of the Town Council for the support of the University, amounting to £13,119, were discharged, and an annual payment of £2500 (since reduced to £2170), secured in terms of "The Edinburgh Corporation Stock Act, 1894," over the Common Good of the City, &c.

Within this century, but especially since 1860, many donations and bequests have been made by Benefactors of the University for the foundation of Fellowships, Scholarships, Bursaries, and Prizes, for the endowment of Chairs, and for the erection of the New Buildings, including the "M'Ewan Hall," and the "Sir John Usher Institute of Public Health." As the University is still very inadequately endowed, much requires to be done that it may not fall behind the requirements of the age. Intending Benefactors are respectfully reminded that additional CHAIRS, LECTURESHIPS, LABORATORY EQUIPMENTS, LIBRARY ENDOWMENTS, SCHOLARSHIPS, BURSARIES, and FUNDS for RESEARCH, for GENERAL MAINTENANCE, and for BUILDING, are urgently required.

1. As regards the Library (which now contains about 208,000 printed volumes, and about 7500 MSS., many of which are of great value) the most pressing wants are :—(a) A fire-proof room in which to store the rare and valuable books of the fifteenth and sixteenth centuries, and the MSS. which are often consulted by scholars and authors from all parts. (b) A fund for the purchase of scientific and literary journals and of larger works of reference. These at present absorb 47 per cent. of the total sum available for all purchases for the Library, so that only about £670 is left for the purchase of new books. Under this head £25,000 at least are required. (c) Extensive structural alterations and new book-cases, which will cost at least £5000. The congestion which has arisen from the want of sufficient and safe accommodation for the Books and MSS. occasions much labour and inconvenience, and if the necessary improvements are not very soon accomplished, will make the efficient working of the Library a matter of serious difficulty. The only alternative, and far more desirable plan, would be the erection of a new suitable building for the Library by the gift of some benefactor.

2. The establishment of the Physical Laboratory, again, cannot any longer be delayed. Its construction and equipment will be a large undertaking, but the task must at once be faced if the scientific reputation of the University is to be maintained.

The names of Benefactors, if so desired, may be connected with the Benefactions they bestow. Such Benefactions may simply be conveyed to the "University of Edinburgh." All necessary information will be gladly afforded by the Secretary of the University Court, the Secretary of Senatus, the Deans of the Faculties, or the University Librarian.

The following list includes the chief Benefactors of the present century, together with the purposes of their benefactions<sup>1</sup> :—

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<sup>1</sup> An Association exists for the purpose of keeping the Public informed regarding the existing insufficiency of the Endowments of the University of Edinburgh, collecting funds, and appropriating them to the further extension and better endowment of the University, and to other purposes tending to promote the efficiency of the University as a seat of learning.

The Chancellor of the University is President of this Association; the Hon. Secretary is Sir Alexander Christison, Bart.; and the Secretary is Robert G. Scott, Esq., W.S., 6 Hill Street, Edinburgh.

*(A.)—Founders of Bursaries in the present Century.*

- Rev. J. STUART, South Carolina—Founder of the Stuart Bursaries.  
Sir JOHN M'PHERSON, late Governor-General of India—Founder of the M'Pherson Bursary (now the Macpherson Scholarship).  
Rev. R. BLAIR, D.D.—Founder of the Blair Bursaries in Arts and Theology.  
J. STEWART HEPBURN, Esq. of Colquhalzie—Founder of three Theological Bursaries.  
JOHN JAMIESON, Esq., Edinburgh—Founder of the Jamieson Bursary.  
GEORGE PARKER BIDDER, Esq.—Founder of the Jardine Bursary.  
WILLIAM LENNIE, Esq., Teacher, Edinburgh—Founder of the Lennie Bursaries.  
JOHN BRUCE, Esq., Trinity Crescent, Edinburgh—Founder of the Bruce Bursaries.  
M'DIARMID TESTIMONIAL TRUSTEES—Founders of the M'Diarmid Bursary.  
W. PATRICK, Esq. of Roughwood—Founder of the Patrick Bursaries.  
JAMES GRAY, Esq. of Baadpark—Founder of the Gray Scholarship.  
EDINBURGH CAITHNESS ASSOCIATION—Founders of a Bursary.  
EDINBURGH GALLOWAY ASSOCIATION—Founders of a Bursary.  
AYRSHIRE CLUB—Founders of two Bursaries.  
PEEBLES SHIRE SOCIETY—Founders of a Bursary.  
Dr ABERCROMBIE, Cape Town—Founder of a Bursary.  
Mrs MARGT. TYNDALL BRUCE of Falkland—Founder of Bursaries.  
TRUSTEES of FRANCIS J. SCOTT, Esq. of Mount Lodge, Portobello—Founders of two Bursaries.  
Miss HANNAH HARRISON of Lasswade—Founder of a Bursary.  
Miss MARY ETTLES of Inverness—Founder of three Bursaries, and the "Ettles Medical Scholarship."  
TRUSTEES of the Rev. JOHN SPENCE, Minister of Kinnaird—Founders of two Bursaries.  
JOHN ROBERTSON SIBBALD, M.D.—Founder of Five Bursaries.  
ARGYLLSHIRE, BUTE, and WESTERN ISLES ASSOCIATIONS—Founders of a Bursary.  
SUBSCRIBERS to MEMORIAL to ROBERT STEWART, Esq. of Ardvorlich—Founders of a Bursary.  
THE EDINBURGH BORDER COUNTIES ASSOCIATION—Founders of two Bursaries.  
THE RIGHT HON. THOMAS, EARL OF ZETLAND—Founder of the Orkney and Zetland Bursary.  
TRUSTEES of JAMES GRIERSON, OF OGSCASTLE—Founders of the Grierson Bursaries.

TRUSTEES OF Dr MACKIE, Leith—Founders of Mackie Bursaries.

TRUSTEES OF J. CAIRNS, Esq., W.S.—Founders of the Cairns Bursary.

TRUSTEES OF Mrs JOHNSTONE of Harthope, Moffat—Founders of the Johnstone of Harthope Bursary.

TRUSTEES OF JAMES LAMBERT, Esq., Alloa—Founders of the Lambert Bursary.

ROBERT MARSHALL, Esq., Merchant, Edinburgh—Founder of the Marshall Bursary.

JOHN FOTHRINGHAM, Esq. of Heathpool—Founder of the Fotheringham and Forrest Bursaries.

Right Hon. LAWRENCE, EARL OF ZETLAND—Founder of the Zetland Bursaries.

ANDREW THOMSON, M.D.—Founder of Eight Bursaries in Arts, Divinity, Law, and Medicine.

EDINBURGH EAST LOTHIAN ASSOCIATION—Founders of a Bursary in Arts.

EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION—Donors of Bursaries in Arts.—Discontinued.

Mrs ISABELLA WEBSTER—Founder of the Webster Bursaries in Divinity.

Dr JOHN AITKEN CARLYLE—Founder of two Bursaries in the Faculty of Medicine.

Mrs ELIZABETH MACKENZIE—Founder of the Mackenzie Bursaries.

TRUSTEES OF Mrs BARBARA MACAULAY OR MYLNE—Founders of a Bursary in Divinity.

TRUSTEES OF Rev. JOHN PATTERSON—Founders of a Bursary in Anglo-Saxon Grammar and Literature.

THOMAS CARLYLE—Founder of the John Welsh Bursaries in Mathematics and Classics.

Mrs HELEN ANDERSON or RONALD, Liverpool—Founder of the Anderson Bursaries.

SUBSCRIBERS to Testimonial to W. MACKINNON, Esq. of Balinakill—Founders of the Mackinnon Bursaries.

TRUSTEES OF JAMES WHITELAW—Founders of Whitelaw Bursaries.

TRUSTEES OF WILLIAM RENTON, Esq.—Founders of a Bursary in Divinity, and one in Arts.

Miss ISABELLA MACDOUGALL, Perth—Founder of the John and Isabella Macdougall Bursaries.

ROBERT HUNTER, Esq., Dalhousie Chesters—Founder of two Bursaries in Divinity.

ROBERT PILLANS NEWTON of Castlandhill and Drumcross—Founder of the Newton Bursaries.

- PETER CAMPBELL MANN of Seaham Harbour, Durham—Founder of the Mann Bursaries.
- CHARLES JARDINE of Thorlieshope—Founder of Bursaries in Arts.
- ISAAC ANDERSON HENRY—Founder of the Anderson Henry Prize.
- Mrs H. E. MORISON—Founder of the Mackenzie (Stornoway) Bursary.
- DANIEL MACLAURIN, Esq.—Founder of the Maclaurin Bursary.
- THOMAS LOCKERBY, Esq.—Founder of the Lockerby Bursary.
- GEORGE COUSIN, Esq.—Founder of the “Bailie Cousin Bursary.”
- THOMAS HILL PATTISON, M.D.—Founder of the Pattison Prize in Clinical Surgery.
- Major ROBERT ORR CRICHTON of Lynn—Founder of the Crichton Bursaries in the Faculty of Medicine.
- Rev. THOMAS MAULE—Founder of Maule’s Bursaries.
- Mrs A. B. R. MILNER FOTHERGILL of Hayton Quarry—Founder of the Milner Fothergill Gold Medal in Therapeutics.
- DONALD FRASER, M.D., London, and ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of the Donald Fraser Bursary in Experimental Physics.
- SUBSCRIBERS TO MEMORIAL TO PROFESSOR KELLAND—Founders of the Kelland Memorial Prize.
- GOVERNORS OF GEORGE HERIOT’S TRUST—Founders of Bursaries in Arts, Science, and Medicine.
- Dr THOMAS CHARLES HOPE, late Professor of Chemistry—Founder of the Hope Prize (now two Hope Scholarships).
- Mrs MARGARET TYNDALL BRUCE—Founder of Prize in Logic Class.
- DANIEL ELLIS, Esq.—Founder of “The Ellis Prize” in the Faculty of Medicine.
- JOHN EDWARD BAXTER, Esq., of Craigtay, bequeathed the reversion of his Estate for the purpose of founding Scholarships, etc.
- Dr NEIL ARNOTT gave £1000 for Promoting the Study of Experimental Physics among the Medical Students of the University.
- Rev. HEW SCOTT of Wester Anstruther—Founder of the Scott and Dunbar Prize in Greek.
- JOHN WILSON, Esq. of South Bantaskine—Founder of the Robert Wilson Prize in Chemistry.
- Mrs E. WIGHTMAN—Founder of the Wightman Prize in Clinical Medicine
- JAMES GEORGE BEANEY, Esq.—Founder of the Beaney Prize.
- ANDREW ROBERTSON CAMERON, M.D., of Richmond, New South Wales—Founder of the Cameron Prize.

JOHN M'COSH, M.D.—Founder of the M'Cosh Graduate's Bursary in Medicine.

Miss JANE MARIA M'MASTER, Edinburgh—Founder of the M'Cosh Medical Bursary.

Miss JANET M. BROWN, Edinburgh, £30 a year for the purpose of providing bursaries in the Faculty of Divinity.

(B.)—*Founders of Scholarships or Fellowships in the present Century.*

THE PITT CLUB—Founders of two Scholarships, one in Arts and one in Divinity.

JAMES MACKENZIE, Esq., W.S.—Founder of Mackenzie Scholarship.

ALEX. HENRY RHIND, Esq. of Sibster—Founder of the Rhind Scholarships and Bursaries.

Sir DAVID BAXTER, Bart., of Kilmaron—Founder of the Baxter Scholarships in Arts and Science.

Sir WILLIAM FETTES, Bart.—Founder of the Fettes Exhibitions.

JOHN MAXTON, Esq.—Founder of a Divinity Scholarship.

Miss ELIZABETH DRUMMOND—Founder of the Drummond Scholarship.

Mrs MARGARET TYNDALL BRUCE—Founder of three Scholarships.

JAMES GUTHRIE, Esq., of London—Founder of the Guthrie Fellowship.

SUBSCRIBERS to HAMILTON MEMORIAL FUND, and ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of a Philosophical Fellowship.

ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of a Classical Fellowship.

TRUSTEES of Dr J. H. GILCHRIST—Founders of three Scholarships for Natives of India.

JOHN ROBERTSON SIBBALD, M.D.—Founder of a Medical Scholarship.

Miss MARY BAXTER, of Balgavies—Founder of Scholarships.

SUBSCRIBERS to FALCONER MEMORIAL FUND—Founders of a Fellowship.

SUBSCRIBERS to SYME FELLOWSHIP—Founders of a Fellowship in the Medical Faculty.

SUBSCRIBERS to GOODSIR MEMORIAL FUND—Founders of a Fellowship in the Medical Faculty.

Rev. JOSEPH TAYLOR GOODSIR bequeathed £900 to Supplement the Goodsir Memorial Fund.

ROBERT A. GOODSIR, M.D., Edinburgh, bequeathed residue of his Estate, amounting to about £2000, to supplement the Goodsir Memorial Fund.

TRUSTEES OF Mrs CHARLES MACLAREN—Founders of the Charles Maclaren Scholarship.



SUBSCRIBERS to GLOVER MEMORIAL FUND, and ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of the “Glover Divinity Scholarship.”

Mrs M. ARNOTT, Widow of NEIL ARNOTT, M.D.—Founder of the “Neil Arnott Scholarship for Experimental Physics.”

JOHN EDWARD BAXTER, Esq. of Craigtay, bequeathed the residue of his estate, out of which three Scholarships named after him have been founded by the University Endowment Association.

The Rev. DAVID AITKEN, D.D., formerly Minister of Minto—Founder of the Aitken Scholarship.

DAVID SKIRVING, Esq., of 13 Westbourne Park, London—Founder of the Skirving Scholarship for Moral Philosophy.

ANDREW THOMSON, M.D.—Founder of a Scholarship.

Misses KIDD of Woodhouse—Founders of the David Kidd Divinity Scholarship.

Dr R. H. GUNNING of Rio Janeiro—Founder of ten Prizes in the Faculty of Divinity, and of eleven Prizes in the Faculty of Medicine

Dr T. LECKIE—Founder of the Leckie-Mactier Scholarship.

SUBSCRIBERS TO MEMORIAL OF Dr COLDSTREAM—Founders of the Coldstream Memorial Medical Missionary Scholarship.

Mrs JAMES BUCHANAN—Founder of a Scholarship in Midwifery and Gynecology.

Dr ANDREW VANS DUNLOP, H.E.I.C.—Founder of the Vans Dunlop Scholarships in Arts, Law, and Medicine.

Misses STEVEN of Bellahouston—Founders of a Scholarship in Agriculture.

SUBSCRIBERS TO MEMORIAL OF Dr CHARLES MURCHISON—Founders of the “Charles Murchison Scholarship.”

Mrs MARY ANN SCOTT or THOMSON of Hawick—Founder of the James Scott Scholarship in Midwifery

ROBERT MACKAY-SMITH, Esq., Edinburgh—Founder of the Mackay-Smith Scholarships in Natural Philosophy and Chemistry.

Dr FREDERICK JOHN MOUAT—Founder of the Mouat Scholarship in Practice of Physic.

Dr JOHN STARK, Auchtermuchty—Founder of the Stark Scholarship in Clinical Medicine.

Mrs KIDD—Founder of “James Fairbairn’s Scholarship.”

Miss JANE JEFFREY—Founder of the Jeffrey Scholarships.

Dr A. H. FREELAND BARBOUR—Founder of the Freeland Barbour Fellowship.

Miss MATILDA JOHNSTON COBB—Founder of the Cobb Divinity Scholarship.

Mrs ELIZABETH MACKIE or TREVELYAN—Founder of Scholarships in Engineering and Mechanical and Useful Arts.

Mrs MUIRHEAD—Founder of Prize in Civil Law Class.

SUBSCRIBERS TO LORIMER MEMORIAL FUND AND ASSOCIATION FOR THE BETTER ENDOWMENT OF THE UNIVERSITY—Founders of the Lorimer Travelling Scholarship.

GEORGE SCOTT, Esq., Peckham, London—Founder of the Scott Travelling Scholarship, for purposes of Study or Research.

GOVERNORS OF GEORGE HERIOT'S TRUST—Founders of Fellowships in Arts and Pure Science.

Mrs E. CROZIER or NICHOL, Edinburgh—Founder of Scholarship in Natural Philosophy.

TRUSTEES OF THE EARL OF MORAY—Founders of "The Earl of Moray's Endowment of £20,000" for Original Research.

Misses MARGARET KEITH AYTOUN and ISABELLA AYTOUN—Founders of the Edmondstone Aytoun Fellowship.

Mrs JANE ALLAN, widow of the late John Allan, M.D., H.E.I.C.S.—Founder of Fellowship in the Faculty of Medicine.

J. M. HOULDSWORTH, Esq. of Ayr, and other Trustees—Founders of "The Houldsworth Scholarship for Research in Pharmacology."

Miss CHRISTIAN THOW of Craigmore, near Dundee—Founder of Scholarships in the Faculty of Law.

A number of Queen's Scholarships, each about £30 a year, for students proceeding to graduation in Arts or Science who intend to become schoolmasters, given by the educational authorities of the Church of Scotland and the Free Church.

THE BLACKIE CELTIC PRIZE, being interest of £650 subscribed by Highlanders to commemorate the late Professor John Stuart Blackie's services in promoting the study of the Celtic Language.

WOMEN SUBSCRIBERS, and £132 by Mr Samuel Gilfillan, London, for the foundation of a prize for Women Students of Medicine in memory of the late Dorothy Gilfillan, M.B., Ch.B.

Sir THOMAS GIBSON CARMICHAEL, Bart.—£100 a year for two years for Research in the Zoological Department.

(C.)—*Founders of New Chairs, Contributors of Endowments to existing Chairs, or of Money, &c., to the University Funds, Library, &c., within the present Century.*

General JOHN REID—Founder of the Theory of Music Chair, who also bequeathed money to the Funds of the University.

General Sir JOSEPH STRATON—Bequest to the University Funds.

Sir JAMES ERSKINE, of Torry, bequeathed Pictures, Bronzes, and Marbles to the University. [Lent to the National Gallery.]

Sir WILLIAM PULTENEY—Founder of the Chair of Agriculture.

Dr WILLIAM THOMSON—Founder of the Thomsonian Lectureship in Mineralogy.

- Sir GEORGE BALLINGALL, Professor of Military Surgery—Presented his Library to the University.
- Dr W. P. ALISON, Professor of the Theory of Medicine—Presented his Medical Books to the University.
- JOHN MUIR, D.C.L., LL.D., Edinburgh—Founder of Sanskrit Chair.
- Sir DAVID BAXTER, Bart., of Kilmaron—Founder of the Chair of Engineering.
- DAVID COWAN, Esq., of Auchendrane, bequeathed £1000 to the Association for Promoting the Endowment of the University.
- Sir RODERICK IMPEY MURCHISON gave £6000 for the Endowment of the Chair of Geology.
- J. O. HALLIWELL-PHILLIPPS, Esq., presented his valuable Shakespearian Collection to the University.
- ROBERT COX, Esq., W.S., bequeathed £5000 for general purposes and for completing the Dome of the University buildings.
- Signor THEOPHILE BUCHER bequeathed his Music Library to the Chair of Music, and reversion of estate to found Scholarships in Music.
- THE MERCHANT COMPANY OF EDINBURGH, and other Governors of George Watson's and Daniel Stewart's Hospitals—Founders of the Chair of Political Economy and Commercial Law.
- Mr HENRY G. and Miss FRANCES WATSON—Donors of Fund for the "Watson-Gordon Professorship of Fine Art."
- Sir D. BAXTER, of Kilmaron, bequeathed £20,000 for the Extension of the University buildings, and £20,000 for the Further Endowment of the Chairs in the Faculty of Arts.
- Miss BROWN, of Lanfine, presented a portion of the Minerals and Fossils which belonged to her father—to be called "The Waterhaugh Collection."
- THE BELL TRUSTEES, who gave £6000 for the Endowment of the Bell Chair of the Theory, History, and Practice of Education. (Endowment increased in 1886 by £4500, added by Educational Endowments Commission.)
- JOHN B. BAILLIE, who transferred the collection of Arabic MSS., formed by Lieut.-Col. Baillie of Leys, to the University Library.
- Dr DAVID LAING, bequeathed his MSS. to the University Library.
- Mrs HODGSON, presented Works on Political Economy, collected by her late husband, Prof. Hodgson, to the University Library.
- Dr VANS DUNLOP bequeathed £3000 to the General Fund of the University.
- SUBSCRIBERS to the CELTIC CHAIR, by whom a fund of £14,000 was raised for the endowment of this Chair by the exertions of Professor Blackie.
- Miss MARY DICK bequeathed a moiety of the residue of her estate to accumulate for twenty-one years from 1883, or till it shall amount to £10,000, for the Foundation of a Chair of Comparative or Surgical Anatomy, as considered most to be required.

SUBSCRIBERS of £500 and upwards to the "UNIVERSITY OF EDINBURGH BUILDINGS EXTENSION SCHEME":—<sup>1</sup>

Sir David Baxter of Kilmaron, Bart., by bequest, less			
Legacy Duty, - - - - -	£18,000	0	0
William M'Ewan, Esq., LL.D., M.P., - - - - -	6,500	0	0
The Duke of Buccleuch and Queensberry, K.G.,			
D.C.L., LL.D., - - - - -	4,000	0	0
The Magistrates and Council of the City of Edinburgh,	3,100	0	0
The Right Hon. the Earl of Moray, - - - - -	2,525	0	0
The Right Hon. The Earl of Rosebery, LL.D., - - - - -	2,400	0	0
The Royal College of Physicians of Edinburgh, - - - - -	1,575	0	0
The Right Hon. the Earl of Stair, K.T., - - - - -	1,500	0	0
Messrs John Jeffrey & Co., - - - - -	1,500	0	0
J. Fulton, Esq., Clinton Road, - - - - -	1,150	0	0
Charles Andrew Aitchison, Esq., Queen Street, - - - - -	1,050	0	0
The Most Hon. the Marquis of Bute, - - - - -	1,000	0	0
Andrew Carnegie, Esq., New York and Pittsburg, - - - - -	1,000	0	0
The Right Hon. the Earl of Derby, - - - - -	1,000	0	0
J. R. Findlay, Esq., Rothesay Terrace, - - - - -	1,000	0	0
The Right Hon. The Earl of Home, - - - - -	1,000	0	0
The Right Hon. The Earl of Hopetoun, - - - - -	1,000	0	0
Sir William Stirling-Maxwell of Pollok and Keir,			
Bart., LL.D., M.P., - - - - -	1,000	0	0
The Rt. Hon. The Earl of Wemyss and March, LL.D.,	1,000	0	0
The Right Hon. the Lord Justice-General Inglis,			
D.C.L., LL.D., Chancellor of the University, - - - - -	800	0	0
Messrs Thomas Nelson & Sons, - - - - -	800	0	0
Henry George Watson, Esq., C.A., - - - - -	800	0	0
The Most Hon. the Marquis of Lothian, - - - - -	750	0	0
The Society of Writers to the Signet, - - - - -	750	0	0
J. Lindsay Bennet, Esq., Taviton Street, London, - - - - -	710	0	0
James Cowan, Esq., Royal Terrace, - - - - -	700	0	0
Robert Richardson, Esq., Bruntsfield Place, - - - - -	700	0	0
C. Morrison, Esq. of Islay, - - - - -	700	0	0
Charles Jenner, Esq., - - - - -	650	0	0
David Anderson, Esq. of Moredun, - - - - -	600	0	0
James H. Renton, Esq., Park Lane, London, - - - - -	600	0	0
Professor Sir W. Turner, LL.D., D.C.L., - - - - -	600	0	0

<sup>1</sup> See Statement of Funds in Calendar, 1889-90, Appendix, p. 22.

His Grace The Duke of Devonshire, - - -	£500	0	0
Charles Cowan, Esq., of Logan House, - -	500	0	0
T. R. Buchanan, Esq., M.P., - - - -	500	0	0
P. D. Swan, Esq., Provost of Kirkcaldy, - -	500	0	0
Lady Campbell of Garscube, - - - -	500	0	0
The late William Cumming, Esq., M.D., Ainslie Place,	500	0	0
The late James T. Gibson-Craig, Esq., York Place, -	500	0	0
Professor Crum Brown, - - - -	500	0	0
The Goldsmiths' Company of London, - - -	500	0	0
Sir W. Mackinnon, Esq., of Balinakill and Loup, -	500	0	0
Graham Menzies, Esq. of Hallyburton, - -	500	0	0
John Graham Menzies, Esq., Grosvenor Crescent, -	500	0	0
W. D. Menzies, Esq., Grosvenor Crescent, - -	500	0	0
Miss Trail, Aberlady, - - - -	500	0	0
Messrs William Younger & Co., Abbey Brewery, -	500	0	0
The Right Hon. The Earl of Zetland, - - -	500	0	0
Anonymous, - - - -	500	0	0

The total amount of subscriptions received was £149,048, 2s. 5d.

EARL OF ROSEBERY provided £50 a year for Lectureship on Philosophy of Natural History for five years.

WILLIAM F. CUMMING, M.D., presented a Drinking Fountain, erected in the Quadrangle of the Old Buildings, in 1886.

JOHN HOPE, W.S., presented a Drinking Fountain to the University New Buildings, 1886.

ALEX. GIBSON, Esq., Advocate, bequeathed £2000, free of legacy-duty, to the General Fund of the University.

WILLIAM M'EWAN, Esq., LL.D., M.P., donor of the M'Ewan Hall, at a cost (including balance paid for Site and Grand Organ) of about £115,000.

ADAM GIFFORD, Senator of the College of Justice, bequeathed £25,000 for the foundation of a Lectureship for promoting, advancing, teaching, and diffusing the study of Natural Theology in the widest sense of that term.

JOHN FULTON, Esq., bequeathed £3000 to General University Fund, the greater part of which has been devoted to the equipment of the new Engineering Laboratory, called the "Fulton Laboratory."

Miss ELIZABETH STEVEN, of Bellahouston—Founder of the Steven Lectureship in connection with the Chair of Agriculture.

ALEXANDER LOW BRUCE, Esq., Edinburgh, £5000	} Founders of "the Bruce and John Usher Chair of Public Health" in the Faculties of Medicine and Science.
Mrs A. L. BRUCE, £500	
Miss A. BLACKWOOD BRUCE, £500	
Other members of the Bruce family, £163	
Sir JOHN USHER, of Norton, £8000	
WILLIAM YOUNGER & Co., £1000	

Benefaction by Sir JOHN USHER of Norton, for the building and equipment of a Laboratory and Class-Rooms in connection with Chair of Public Health.

Sir WILLIAM FRASER, K.C.B., LL.D.—

1. For foundation of Chair or Professorship to be called "The Sir William Fraser Professorship of Ancient History and Palæography," £25,000.
2. For Library purposes, £10,000.
3. Half of Residue of Estate for general purposes, but especially for Foundation of Bursaries, &c., in connection with History, or for promoting Historical Research, expected to amount to about £15,000.

JAMES RITCHIE, Esq., bequeathed £3000 for University purposes.

HIGHLAND AND AGRICULTURAL SOCIETY, £1021, 6s. 7d., and ROYAL SCOTTISH ARBORICULTURAL SOCIETY, £584, 3s. 10d., — for further Endowment of a Chair or Lectureship in Forestry.

£50 from C. JUNGHEHN, Rangoon, towards foundation of Chair of Forestry.

The Hon. JOHN MACGREGOR, Burmah, £500 for endowment of Chair of Forestry.

Vote of £80 by the EDINBURGH SCHOOL OF RURAL ECONOMY towards Lectureship of Agricultural Chemistry.

Dr PHILIP NELSON, Annan, bequeathed £84, 12s. 3d. to University Building Fund.

Sir WILLIAM OVEREND PRIESTLEY, M.P., £1000 towards cost of redecorating the Library Hall.

THOMAS M'KIE, £100 towards improving Students' Reading Room.

Hon. BOUVERIE PRIMROSE bequeathed £100 for Original Research and £100 for Library.

The SUBSCRIBERS, for founding a Classical Library in memory of Professors Sellar and Goodhart.

The SUBSCRIBERS, for founding a Departmental Library in Philosophy.

Miss CARRICK MOORE presented to the Geological Class Library, a set of the publications of the Palæontographical Society, the property of her late father, John Carrick Moore, Esq., F.R.S., F.G.S., of Corsewall, Wigtownshire.

Miss ELEANOR A. ORMEROD, F.E.S., LL.D., Collection of Entomological Diagrams prepared by her late sister.

Professor GWATKIN, D.D., Cambridge, mounted specimens of Molluscan Radulæ for microscope.



Professor KIRKPATRICK, founder of the History Library.

Professor C. P. TIELE—Donation of £100 to History Library.

Rev. Dr JOHN WALKER, formerly Professor of Natural History in the University, bequeathed £991 for University Library and College Museum.

Physiology diagrams and microscopical specimens, books on physiology, histology, anatomy, &c., bequeathed by the late Professor Rutherford.

Mrs M. A. SHAW, Ventnor, of £100, to be designated "The Shaw Gift."

Mrs HARRIET G. COX, Gorgie, £2800 for the building of "The Hughes Bennett Laboratory for Physiological Research."

ÆNEAS J. G. MACKAY, K.C., LL.D., £2000, the interest to be applied to the Historical Department.

Messrs R. and J. GARTON, Newton-le-Willows, endowed the "Garton Lectures," on Colonial and Indian Agriculture, with an income of £150 a year.

Miss JOANNA S. S. GIBSON, Edinburgh, £500 for the formation of a Library of German literature.

SUBSCRIBERS to Memorial to the late Mr Andrew J. Ramsay for a Library for the use of Students of the Class of Astronomy, and for Prizes.

#### BEQUESTS AND DONATIONS DURING 1901-1902.

##### I. *Bequests.*

Bequest of £5000 to the University, by Miss Eleanor Ormerod, LL.D., St Albans.

Bequest of £5000 by Miss Martha Broun, of Lanfine, for Bursaries in the Faculty of Arts to be called "The Lanfine Bursaries."

##### II. *Donations.*

Munificent gift of £2,000,000 by Mr Andrew Carnegie, of New York, and of Skibo, in the County of Sutherland, to the four Scottish Universities, the interest to be applied in part to the payment of the class fees of students of Scottish birth or extraction, or who have given two years' attendance after the age of fourteen at Scottish schools; and partly to the better equipment of the Universities.

Grant of £50 by Highland and Agricultural Society in aid of Lectureship in Forestry.

Grant of £130 by the Edinburgh School of Rural Economy towards the Lectureship in Agricultural Chemistry.

Grants from Edinburgh and East of Scotland College of Agriculture of £100 for Elementary Course in Agriculture, and of £130 towards Lectureship in Agricultural Chemistry.

Gift of Telescope and Books from the family of the late Professor Tait.

Bust of Lord Brougham, by Christopher Moore, presented by Lady Denman.

*Donations to Library, 1901-1902.*

- The Earl of Crawford—*Bibliotheca Lindesiana. Catalogue of English Newspapers, 1641-1666.*
- The Duc de Loubat—*Codex Fejérvary*—Mayer; the Tonalamatl of the Aubin Collection, with Introduction by E. Seler.
- The Marquis de Panisse-Passis—*Les Comtes de Tende de la maison de Savoie.*
- Professor R. W. Rogers—*Outlines of the History of Early Babylonia.*
- Rev. James Smith—*A Pilgrimage to Italy.*
- Dr D. Hay Fleming—*Six Saints of the Covenant*, by Patrick Walker. 2 vols.
- Professor Saintsbury—*The Earlier Renaissance.*
- Professor Rankine—*Report on Canadian Archives.* 3 vols.
- Professor J. D. Prince—*The Modern Dialect of the Canadian Abenakis; Notes on Passamaquoddy Literature.*
- Sir James Marwick, Glasgow—*The Water Supply of the City from the Earliest Period of Record.*
- Professor J. Westlake—*L'Angleterre et les républiques Boers.*
- Dr John Orr—*Handbook of Public Health.*
- The Bishop of Salisbury—*The Episcopate of Charles Wordsworth, 1853-1892.*
- Miss Frances Murray—*Painted Wall Cloths in Sweden.*
- Professor S. S. Laurie—*The Training of Teachers and Methods of Instruction, &c.*
- Rev. J. E. Boggis.—*A History of St Augustine's Monastery, Canterbury.*
- Mrs P. Redpath—*Catalogue of a Collection of Historical Tracts, 1561-1800*, in 532 volumes, collected and annotated by S. J. Reid.
- Professor T. R. Fraser—*Acokanthera Schimperii*, by T. R. Fraser and Joseph Tillie.
- Mr Young J. Pentland—*The Revised 20th Century Phrenology*, by J. W. Taylor; *the Commonwealth of Cells*, by H. G. F. Spurrell; *Pulmonary Tuberculosis*, by C. Ruata; *Modern Natural Theology*, by F. J. Gant; *Tubercular Disease of the Hip-joint*, by A. J. Grant, &c.
- Rev. R. Menzies Fergusson—*The Practice of Sanctification*, by Alexander Hume.
- Mr H. Nelson Hardy—*The State of the Medical Profession in Great Britain and Ireland in 1901.*
- Mr H. Kündig—*Esquisses de Littérature Politico-Economique*, par N. Ch. Bunge, traduit du Russe.
- Mr A. H. Hutt—*Dr John Macleod: his Work and Teaching*, by A. Wallace Williamson.
- Mr W. Kelly—*The Revelation Expounded.*
- Peace Conference—*Actes de la Conférence de la Haye; Actes de la Deuxième Conférence, &c.*

- Mr James Ward—Notes on the Parish Registers of St Mary's, Nottingham, 1566-1812.
- Herr A. Bozi—Die natürlichen Grundlagen des Strafrechts.
- Mr J. Coutts—The Tree of Life in the Light of Revelation.
- Faculty of Physicians and Surgeons of Glasgow—Catalogue of the Library. Vol. 2, comprising the additions, 1885-1900.
- Mr T. Hunter, Town Clerk, Edinburgh—Edinburgh Records. The Burgh Accounts, 1544-1567, ed. by R. Adam. 2 vols.
- Cornell University Library—Catalogue of the Fiske Dante Collection in the Library; Hand-List of Framed Reproductions of Pictures and Portraits belonging to the Dante Collection, &c.
- Rev. W. St Clair Tisdall—The Sources of Islam, translated and abridged by Sir William Muir.
- Messrs G. Bell & Sons—Notes of an Outlook on Life: Being Selections from the Private MSS. of A. G. Mercer.
- M. E. Gielkens—Camille.
- Professor Herdmann—Fourteenth Annual Report of the Liverpool Marine Biology Committee.
- Mr W. O. M'Dowell—Washington, or the Revolution, a Drama by E. Allan. 2 vols.
- Mr A. C. Pigou—Robert Browning as a Religious Teacher.
- Mr W. MacGillivray—A Memorial Tribute to William MacGillivray.
- Mr W. E. Harrison—A Brief Sketch of the History of Ipswich School.
- Mr F. Perigal—A Short Record of Henry Perigal's Life.
- Professor W. James—Human Immortality. Second ed. The Will to Believe, and other Essays.
- Trustees of the British Museum—Catalogue of the Greek Coins of Lycaonia, Isauria, and Cilicia, by G. F. Hill; Catalogue of Sculpture in the British Museum, ed. by F. G. Kenyon, &c.
- Dr R. C. Maclagan—The Games, &c., of Argyllshire.
- Mr J. W. Norton-Kyshe—The Law and Privileges relating to Attorneys-General; the Law and Customs relating to Gloves.
- Mr W. Pile—Scientific Papers and Letters, by A. H. Smee.
- Professor R. Lodge—The Close of the Middle Ages.
- Masters and Fellows, Trinity College, Cambridge—The Western MSS. in the Library. A Descriptive Catalogue, vol. ii., by M. R. James.
- University of Aberdeen—Roll of Alumni in Arts of the University of King's College, 1596-1860, ed. by P. J. Anderson.
- Mr R. Horton Smith—The Theory of Conditional Sentences in Greek and Latin.
- Town Clerk, Guildhall, London—Calendar of Letter-Books of the City of London, 1291-1309, ed. by R. R. Sharpe.
- Professor Sir W. Turner—Contributions to the Craniology of the People of the Empire of India. Two Parts, and a Collection of his Published Papers.
- Mr Ferrar Fenton—St Paul's Epistles in Modern English.

- Dr Otto Schlapp—Kant's Lehre vom Genie und die Entstehung der Kritik der Urteilkraft.
- Professor G. Adam Smith—Modern Criticism and the Preaching of the Old Testament.
- Maulavi Nazu Ahmud—The Bride's Mirror, ed. by G. E. Ward ; Sarfe Saghiri ; Rasmal Khat ; Mubadi ul Hikmat, &c.
- Mrs J. G. Clark—Jonas Gilman Clark : in Memoriam (1815-1900).
- Professor A. Crum Brown—Chemistry, by A. Crum Brown.
- Professor E. Redard—Shakespeare dans les pays de langue française.
- Professor Sir Henry Littlejohn—Annual Report of the Medical Officer of Health of the City of Edinburgh, 1900.
- M. Masson et Cie—Histoire de la littérature française des origines à nos jours, par L. Petit de Julleville ; Géographie de la France et de ses colonies, par M. Dubois et F. Benoit.
- Dr James Burgess—Nederlandsch Indisch Plakaatboek, 1602-1811 ; Dagh-Register Batavia, anno, 1637.
- The Scientific Press—Burdett's Hospitals and Charities, 1901.
- M. Pierre de Coubertin—La Chronique de France, 1<sup>re</sup> année.
- Sir William Muir—A Grammar of the Classical Arabic Language, translated and compiled by M. S. Howell.
- Messrs W. and R. Chambers—Chambers' Journal, 1901 ; Cyclopædia of English Literature. New ed., edited by Dr D. Patrick, vol. i.
- Mr W. Durie—The Law relating to Tidal and Inland Waters.
- Dr R. Needham Cust—Linguistic and Oriental Essays, 3 vols.
- Professor Eggeling—A Grammar of the Asante and Fante Language, called Tshi.
- Dr C. Sarolea—L'Apothéose de Goethe ; Empires perdus des temps modernes, and other papers.
- Professor W. D. Halliburton—The Croonian Lectures on the Chemical side of Nervous Activity.
- Dr J. Buist—The early days of the Royall Colledge of Phisitions, Edinburgh, by R. Peel Ritchie.
- Rev. W. S. Bruce, D.D.—The Formation of Christian Character.

FOR THE YEAR ENDING 31<sup>ST</sup> AUGUST 1901.

## CAPITAL.

I. GENERAL UNIVERSITY FUND:—

Funds at beginning of year . . . . .	£68,347	17	6
Add Surplus of Revenue over Expenditure . . . . .	1,913	5	6
	£70,261	3	0

## II. FUNDS PARTLY OR WHOLLY UNAPPROPRIATED TO PARTICULAR PURPOSES;—

Funds at beginning of year . . . . .	£125,952	17	2	
Added during year—				
Surplus of Revenue over Expenditure for				
year . . . . .		172	4	4
		<u>          </u>		
				126,125 1 6

### III. FUNDS APPROPRIATED TO PARTICULAR PURPOSES OTHER THAN BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES:—

Funds at beginning of year . . . . .	£164,507	2	7
Added during year—			
Donation from Miss Joanna S. S. Gibson, to be expended in the formation of a German Library . . . . .	£500	0	0
Surplus on Pension Fund . . . . .	2,728	16	3
	<hr/>		
Less over-payment on other Funds . . . . .	£3,228	16	3
	65	9	0
	<hr/>		
	3,163	7	3
	<hr/>		
		167,670	9 10
		<hr/>	
Carry forward,	£364,056	14	4

	Brought forward,	£364,056 14 4
IV. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES :—		
Funds at beginning of year . . . . .	£338,177 0 6	
Added during year—		
Principal sum in Bond by His Excellency the late Robert Halliday Gunning, M.D., LL.D., granted by him in favour of the University on 6th March 1890, for the institution of the “Gunning Victoria Jubilee Prizes in Medicine,” now paid over by his executors, along with the balance of unapplied income in their hands . . . . .	£5,279 3 9	
Do., for the institution of the “Gunning Victoria Jubilee Prizes in Divinity,” do. . . . .	5,347 0 5	
Amount subscribed through the Scottish Association for the Medical Education of Wo- men for the foundation of the “Dorothy Gilfillan Prize” in the Faculty of Medicine, in memory of the late Dorothy Gilfillan, M.B., Ch.B. . . . .	£217 16 0	
And contribution by Mr S. Gilfillan . . . . .	132 4 0	
	350 0 0	
Surplus of Revenue over Ex- penditure . . . . .	1,209 15 7	
	<hr/> 12,185 19 9	
		£350,363 0 3
V. ESKBANK FEU-DUTIES—CASUALTY FUND.		
Fund at beginning of year . . . . .	£385 6 4	
Added during the year :—		
Surplus of Revenue over Expenditure for year . . . . .	42 7 5	
	<hr/> 427 13 9	
Total Funds at 31st August 1901 . . . . .		<hr/> £714,847 8 4

NOTE.—The above Funds are stated at their book value or cost price. The market value of the Funds at the 31st August 1901 exceeded the book value by £21,522, os. 1d. No notice is taken above of the University Buildings, New Medical School, Music Class Room, and Principal's Official Residence, or of the Library, Museums, and Furnishings of the University, as the values of these are not known.



REVENUE AND EXPENDITURE.

. GENERAL UNIVERSITY FUND.

*Revenue.*

*Revenue.*

1. Matriculation Fees . . . . .	£2,914	16	0
2. Entrance Fees from Students not matriculated . . . . .		12	5 0
3. Fees in lieu of Matriculation Fees . . . . .		86	2 0
4. Preliminary Examination Fees . . . . .	469	17	0
5. Graduation Fees :—			
(1) Arts . . . . .	£1,052	19	0
(2) Science . . . . .	320	4	0
(3) Medicine . . . . .	6,507	3	0
(4) Divinity . . . . .	34	13	0
(5) Law . . . . .	146	9	0
(6) Music . . . . .	10	10	0
			<hr/>
	8,071	18	0
6. Fees of Registration of Members of General Council . . . . .	327	0	0
7. Fees of Access to Library . . . . .	35	14	0
8. Income from Accumulations of the General University Fund . . . . .	2,212	13	11
9. Income from Funds bequeathed for general purposes :—			
(1) Straton Fund . . . . .	£415	4	10
(2) Cox Fund . . . . .	68	2	8
(3) Gibson Fund . . . . .	63	10	7
			<hr/>
	546	18	1
10. Income from Funds partly appropriated to particular purposes, the Surplus Income of which falls to general purposes :—			
(1) Leith Harbour Annuity Fund . . . . .	£614	2	4
(2) Reid Fund . . . . .	431	3	3
			<hr/>
	1,045	5	7
11. Income from Funds specifically appropriated by Deed of Endowment to Class Expenses :—			
(1) Fund for Chair of Engineering . . . . .	£22	15	7
(2) Fund for Chair of Geology . . . . .	44	13	1
			<hr/>
Carry forward,	£67	8	8
	£15,722	9	7

		Revenue.	Expenditure
Brought forward,	£67 8 8	£15,722 9 7	£ ...
(3) Fund for Chair of Fine Art	40 1 2		
(4) Fund for Chair of Commercial and Political Economy . . .	74 0 0		
(5) Gilchrist Fund for purchase of apparatus . .	78 6 0		
		259 15 10	
12. Income from Parliamentary Grant . . .		25,870 0 0	
13. Income from Endowment of Chairs in the Faculty of Divinity . . .		247 16 3	
14. Surplus on Fee Fund . . .		3,840 6 9	
15. Royalty from Publisher of University Calendar . .		100 0 0	
16. Fees from Societies for Use of Rooms, &c. .		66 14 0	
		£46,107 2 5	

*Expenditure.*

## 1. Expenses of Administration :—

(1) University Court . . . . .	..	£838 8
(2) Senatus Academicus . . . . .	...	1,879 12
(3) General Council . . . . .	...	196 8
(4) Curators of Patronage . . . . .	...	20 13
(5) Editing University Calendar . . . . .	...	50 0
(6) Students' Representative Council . . . . .	...	35 0
(7) Factor . . . . .	...	692 3
(8) Law Agents . . . . .	...	75 15
(9) Auditor . . . . .	...	25 19

£3,814 1 10

## 2. Salaries to Principal and Professors :—

(1) Salary to Principal in accordance with Section III. of Ordinance No. 27 of the Scottish Universities Commissioners . . .	£1,048 17 10
(2) Salaries to Professors in accordance with Section VII., Sub-section 1 (b), of said Ordinance . .	4,227 8 5
(3) Salaries to Professors in accordance with Section VII., Sub-section 2, of said Ordinance . .	1,483 6 8

Carry forward, £6,759 12 11 £46,107 2 5 £3,814 1 10

		Revenue.	Expenditure.
Brought forward,	£6,759 12 11	£46,107 2 5	£3,814 1 10
(4) Salaries to Professors in accordance with Sections IX. and XI., Sub-section 2 (d), of said Ordinance . . . . .	3,050 0 0		
(5) Salaries to Professors in the Faculty of Divinity in accordance with Section XI., Sub-section 2 (e), of said Ordinance . . . . .	447 16 3		
(6) Salary of Professorship instituted subsequent to said Ordinance . . . . .	130 0 0		
			10,387 9 2
3. Provision for Pensions to Retired Professors . . . . .			5,000 0 0
4. Upkeep of Buildings :—			
(1) Buildings and Furnishings	£3,030 17 3		
(2) Lighting, Heating, and Cleaning . . . . .	1,600 3 10		
(3) Public Burdens and Feudal Duties . . . . .	528 7 10		
(4) Insurance . . . . .	220 0 6		
			5,379 9 5
5. Equipment and Upkeep of Library . . . . .			2,483 2 0
6. Equipment and Upkeep of Museums . . . . .			227 18 2
7. Equipment and Upkeep of Laboratories, including Class Expenses . . . . .			2,806 14 8
8. Lecturers and Assistants . . . . .			9,928 5 0
9. Examiners . . . . .			2,430 19 6
10. Service . . . . .			1,088 8 2
11. Class Medals and Prizes . . . . .			216 10 0
12. Graduation Expenses . . . . .			215 12 0
13. Expenses in connection with Public Health Institute . . . . .			164 17 0
14. Incidental Expenses and Grants . . . . .			50 10 0
Carried to Abstract . . . . .	£46,107 2 5	£44,193 16 11	

II.—FEE FUND ACCOUNT AND SALARIES ACCOUNT :—

	Revenue.	Expenditure.
1. Fee Fund Account . . . . .	£25,390 15 10	£25,390 15 10
2. Salaries Account . . . . .	9,306 1 3	9,306 1 3
3. Fees collected for Professors and Lecturers not falling into Fee Fund . . . . .	517 13 0	517 13 0
Carried to Abstract . . . . .	£35,214 10 1	£35,214 10 1

### III.—FUNDS PARTLY OR WHOLLY UNAPPROPRIATED TO PARTICULAR PURPOSES :—

	Revenue.	Expenditure.
1. Annuity under the Edinburgh Corporation Stock Act, 1894 . . . . .	£1,656 8 2	£1,656 8 2
2. Reid Fund . . . . .	1,423 7 10	1,423 7 10
3. Reid Professorship of Music, Assistants, and Expenses Fund . . . . .	550 16 10	383 5 2
4. Straton Fund . . . . .	415 4 10	415 4 10
5. Cox Fund . . . . .	68 2 8	68 2 8
6. Gibson Fund . . . . .	63 10 7	63 10 7
7. University Building Fund . . . . .	4 12 8	...
Carried to Abstract . . . . .	<u>£4,182 3 7</u>	<u>£4,009 19 3</u>

### IV.—FUNDS APPROPRIATED TO PARTICULAR PURPOSES OTHER THAN BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES :—

	Revenue.	Expenditure.
1. Baxter Salary Fund . . . . .	£572 19 9	£572 19 9
2. Bell Chair of Education . . . . .	343 3 4	343 11 11
3. Celtic Chair . . . . .	496 9 7	496 6 0
4. Lectureship in Procedure and Evidence . . . . .	100 0 0	100 0 0
5. Chair of Commercial and Political Economy . . . . .	524 0 0	524 0 0
6. Chair of Engineering, viz. :—		
(1) Fund for Professor's Salary . . . . .	189 16 4	227 13 10
(2) Fund for Expenses of the Chair . . . . .	22 15 7	22 15 7
7. Chair or Lectureship on Forestry . . . . .	235 4 8	235 4 8
8. Gilchrist Fund . . . . .	78 6 0	78 6 0
9. Gifford Lectureship . . . . .	681 4 9	681 4 9
10. Muir Chair of Sanskrit . . . . .	225 13 9	225 13 9
11. Murchison Chair of Geology, viz. :—		
(1) Fund for Professor's Salary . . . . .	177 7 6	177 14 6
(2) Fund for Expenses of the Chair . . . . .	35 9 3	35 9 3
12. M'Ewan Hall . . . . .	544 5 6	544 5 6
13. Moray Fund for Research . . . . .	569 9 1	509 15 4
14. Mackay Fund . . . . .	47 0 10	50 16 4
15. Nichol Foundation . . . . .	47 6 10	47 6 10
16. Pulteney Chair of Agriculture . . . . .	38 11 2	38 11 2
17. Chair of Public Health . . . . .	460 5 8	446 1 5
18. Pension Fund . . . . .	5,432 3 11	2,703 7 8
19. Steven Lectureship on Agriculture . . . . .	85 8 4	85 8 4
20. Thomson Funds, viz. :—		
(1) Fund for Salary of Professor of Natural History. . . . .	36 15 5	36 15 5
Carry forward, . . . . .	<u>£10,943 17 3</u>	<u>£8,183 8 0</u>

	Revenue.	Expenditure
Brought forward,	£10,943 17 3	£8,183 8 0
(2) Fund for Expenses of Chair of Geology . . . . .	9 3 10	9 3 10
21. Watson Gordon Professorship of Fine Art., viz. :—		
(1) Fund for Professor's Salary .	418 14 2	418 14 2
(2) Fund for Expenses of the Chair .	40 1 2	40 1 2
22. Library Fund . . . . .	13 17 8	3 2 0
23. Natural History Museum Fund . .	10 16 0	104 8 11
24. Research Fund . . . . .	3 1 7	...
25. Tiele Library Fund . . . . .	3 1 7	12 16 4
26. Lectures on Agricultural Chemistry .	130 0 0	130 0 0
27. Garton Lectures on Agriculture .	150 0 0	150 0 0
28. Chair of Conveyancing . . . . .	105 0 0	105 0 0
29. University Athletic Field Fund . .	11 19 7	19 11 2
Carried to Abstract	£11,839 12 10	£9,176 5 7

V.—FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES:—

	Revenue.	Expenditure.
1. Aitken Scholarship . . . . .	£106 17 6	£1 8 3
2. Ardvorlich Bursary . . . . .	15 3 9	15 3 9
3. Neil Arnott Prize . . . . .	35 11 10	35 12 6
4. Neil Arnott Scholarship . . . . .	32 12 7	32 12 7
5. Baxter Mathematical and Philosophical Scholarships . . . . .	124 3 7	122 3 5
6. Baxter Natural and Physical Science Scholarships . . . . .	144 11 4	144 11 2
7. Misses Baxter of Balgavies Scholarships	156 7 1	101 4 9
8. John Edward Baxter Scholarships, viz. :—		
(1) Fund for Scholarships . . . .	236 9 0	275 7 4
(2) Fund for Examiners' Fees . .	11 7 10	0 3 0
9. Bruce of Grangehill and Falkland Bursaries and Scholarships . . . .	430 15 2	440 16 4
10. Beaney Prize . . . . .	30 16 10	31 6 10
11. Buchanan Scholarship . . . . .	38 11 11	37 19 3
12. Buchanan Bursary . . . . .	22 15 4	22 15 2
13. Bucher Scholarship . . . . .	116 13 2	113 17 10
14. Bayne Bursary . . . . .	23 14 7	23 14 7
15. Brown Bursaries . . . . .	23 14 7	23 14 7
16. Blair Arts Bursary . . . . .	9 2 4	9 2 8
17. James Beattie's Bursaries . . . .	1 13 7	1 13 7
18. Misses Brown Bursaries . . . . .	28 9 6	5 3 10
19. Cairns Bursary . . . . .	18 0 8	18 0 8
Carry forward,	£11,607 12 2	£1,456 12 5

*Abstract of Accounts—Revenue and Expenditure.*

	Revenue.				Expenditure.			
	Brought forward,				£1,456 12 5			
20. Cameron Prize . . . . .	£1,607	12	2		87	7	6	166 11 1
21. Dr John Aitken Carlyle's Medical Bursaries . . . . .	53	3	0					39 17 0
22. Cousin Prize . . . . .	14	8	2					14 10 1
23. Bailie Cousin Bursary . . . . .	26	11	6					26 11 6
24. Cobb Scholarship . . . . .	28	9	6					24 5 5
25. Crichton Bursaries, and Scholarships . . . . .	953	12	0					812 7 5
26. Drummond Scholarship, viz. :—								
(1) Fund for Scholarship . . . . .	90	8	1					90 8 1
(2) Fund for Examiners' Fees . . . . .	5	18	8					0 1 6
27. William Dickson Travelling Fund . . . . .	85	6	3					34 13 0
28. Dundas Bursaries . . . . .	45	13	6					41 0 10
29. Dalgleish and Macmorran Bursary . . . . .	13	3	7					13 3 7
30. Edinburgh University Endowment Association's Arts Bursaries . . . . .	...							56 0 0
31. Ettles' Divinity Scholarships . . . . .	96	4	2					89 18 4
32. Ettles' Medical Scholarship . . . . .	29	13	2					30 2 11
33. Ellis Prize . . . . .	34	16	8					0 9 0
34. Falconer Memorial Fellowship, viz. :—								
(1) Fund for Fellowship . . . . .	106	6	0					54 12 0
(2) Fund for Examiners' Fees . . . . .	4	0	8					0 1 0
35. Fotheringham and Forrest Bursaries . . . . .	37	12	0					37 12 2
36. James Fairbairn Scholarship . . . . .	32	5	5					63 15 4
37. Freeland Barbour Fellowship . . . . .	47	12	11					94 5 8
38. Fraser Bursaries . . . . .	41	5	9					21 2 5
39. Donald Fraser Bursary . . . . .	48	6	11					48 8 1
40. Ford Bursaries . . . . .	31	12	7					31 12 7
41. Glover Divinity Scholarship . . . . .	37	17	0					33 15 3
42. Gray Scholarships . . . . .	87	5	7					1 2 3
43. Guthrie Fellowship . . . . .	81	7	9					81 7 9
44. Grierson Bursaries . . . . .	306	17	9					212 19 4
45. Gunning Scholarships . . . . .	3	6	0					0 1 0
46. Gunning Medical Prizes . . . . .	17	5	0					103 10 8
47. Gunning Divinity Prize . . . . .	14	4	6					0 3 6
48. Goodsir Memorial Prize . . . . .	127	10	1					128 10 3
49. Dorothy Gilfillan Prize . . . . .	10	0	0					10 0 0
50. Hamilton Philosophical Fellowship, viz. :—								
(1) Fund for Fellowship . . . . .	80	8	8					80 8 6
(2) Fund for Examiners' Fees . . . . .	4	3	0					0 1 0
51. Harrison Bursary . . . . .	24	16	8					20 12 7
52. Hope Prize . . . . .	77	5	0					48 9 11
53. Robert Hunter Bursaries . . . . .	40	13	7					0 16 6
54. Houldsworth Scholarship . . . . .	43	12	1					0 11 6
55. Jardine Bursary . . . . .	41	6	7					41 6 7
56. Jardine of Thorlieshope Bursaries . . . . .	267	3	7					265 15 4
Carry forward,	£4,786	13	0		£4,276	13	0	



	Revenue.			Expenditure.		
Brought forward,	£4,786	13	0	£4,276	13	0
57. Johnston of Harthope Bursary . . . . .	15	8	5	15	8	5
58. Jeffrey Scholarships . . . . .	130	17	1	139	7	6
59. Robert Johnston Bursaries . . . . .	53	3	0	32	19	9
60. Archibald Johnstone Bursary . . . . .	12	6	8	12	6	6
61. David Kidd Divinity Scholarship . . . . .	34	3	4	38	7	4
62. Kelland Memorial Prize . . . . .	4	7	5	4	7	7
63. General Lang's Bequest . . . . .	15	3	9	0	4	0
64. Lockerby Bursary . . . . .	30	7	8	15	12	6
65. Lorimer Travelling Scholarship . . . . .	41	15	1	41	15	3
66. Leckie Mactier Fellowship . . . . .	75	18	6	39	0	0
67. Leighton and Struthers Bursary . . . . .	22	3	11	0	10	3
68. Charles Maclaren Scholarship, viz.:—						
(1) Fund for Scholarship . . . . .	110	0	8	110	0	9
(2) Fund for Examiners' Fees . . . . .	7	11	10	0	2	0
69. Maxton Scholarship . . . . .	40	4	10	40	4	10
70. Mackenzie Classical Scholarship . . . . .	103	11	5	105	13	5
71. Macpherson Bursaries . . . . .	83	1	3	85	5	7
72. Marshall Bursary . . . . .	30	16	11	30	16	11
73. Mackenzie Bursaries in Anatomy . . . . .	29	18	3	30	17	1
74. Mackinnon Bursaries . . . . .	57	16	8	33	11	2
75. Mann Bursaries . . . . .	81	6	3	53	2	10
76. Mackie Bursaries . . . . .	56	18	11	29	3	0
77. Maclaurin Bursary . . . . .	67	8	8	64	15	6
78. Maule Bursaries . . . . .	81	1	2	81	2	11
79. Milner Fothergill Prize . . . . .	9	9	10	0	2	6
80. Muirhead Prize . . . . .	14	16	7	14	16	7
81. M'Lurg and Penman Bursary . . . . .	18	19	7	0	5	0
82. Miller Bursary . . . . .	22	15	7	22	15	7
83. Mitchell and Shortt Bursary . . . . .	20	17	9	21	4	10
84. Mackenzie (Stornoway) Bursary . . . . .	25	10	9	25	10	9
85. Mouat Scholarship . . . . .	52	8	10	53	5	1
86. M'Cosh Graduate's Bursary . . . . .	145	1	8	146	17	2
87. M'Cosh Medical Bursary . . . . .	10	19	8	11	2	5
88. Newton Bursaries . . . . .	85	4	2	75	13	4
89. Nairne Bursary . . . . .	15	16	7	15	16	7
90. Prizes in Sanskrit . . . . .	...			...		
91. Pitt Club Classical Scholarship . . . . .	55	10	6	28	10	3
92. Pitt Club Theological Scholarship . . . . .	94	12	4	57	15	3
93. Patrick Bursaries . . . . .	115	9	4	110	16	8
94. Pattison Bursary . . . . .	9	19	4	9	19	4
95. Patterson Bursary . . . . .	15	5	7	15	5	9
96. Bailie John Penman Bursary . . . . .	14	0	1	14	0	0
97. Rev. John Penman High School Bursaries	7	13	4	0	2	0
Carry forward,	£6,706	15	4	£5,906	7	2

*Abstract of Accounts—Revenue and Expenditure.*

	Revenue.	Expenditure.
Brought forward, . . . . .	£6,706 15 4	£5,906 7 2
98. Pringle and Wardrop Bursary . . . . .	16 15 10	16 15 10
99. Rhind Scholarships . . . . .	152 8 6	154 10 6
100. Renton Bursary in Arts . . . . .	18 19 8	18 19 8
101. Renton Bursary in Divinity . . . . .	18 19 8	0 9 0
102. Ramsay Bursary in Arts . . . . .	10 10 10	10 10 10
103. Ramsay Bursary in Divinity . . . . .	15 16 7	0 7 9
104. Ritchie Scholarships . . . . .	77 3 8	75 13 4
105. Horsliehill Scott Bursary . . . . .	63 4 8	56 18 8
106. Shaw Philosophical Fellowship . . . . .	132 9 6	132 9 6
107. Steven of Bellahouston Scholarship . . . . .	66 8 9	74 16 9
108. Syme Surgical Fellowship, viz. :—		
(1) Fund for Fellowship . . . . .	97 9 0	50 0 11
(2) Fund for Examiners' Fees . . . . .	8 10 10	12 14 3
109. Scott and Dunbar Prize . . . . .	27 8 4	25 16 6
110. Dobbie Smith Prize . . . . .	4 15 9	0 1 3
111. Mackay Smith Scholarships, viz. :—		
(1) Fund for Scholarships . . . . .	94 18 2	83 1 1
(2) Fund for Examiners' Fees . . . . .	3 15 10	1 6 0
112. Stark Scholarship . . . . .	53 3 0	10 17 0
113. James Scott Scholarship . . . . .	30 16 11	30 16 11
114. Stewart Bursaries . . . . .	34 3 4	25 12 4
115. George Scott Scholarship . . . . .	33 11 5	16 15 5
116. Tarsappie Bursary . . . . .	4 18 8	0 1 3
117. Trevelyan Scholarship . . . . .	33 3 6	33 4 4
118. Trotter and Penman Bursary . . . . .	12 5 0	12 4 11
119. Vans Dunlop Scholarships . . . . .	2,243 18 7	2,051 4 10
120. Wightman Prize . . . . .	14 2 3	0 3 9
121. Robert Wilson Prize . . . . .	7 13 1	6 8 9
122. Webster Bursaries . . . . .	122 4 9	89 7 8
123. John Welsh Bursaries . . . . .	195 8 4	230 16 4
124. Whitelaw Bursaries . . . . .	67 10 0	67 10 0
125. King William III. Bursaries . . . . .	50 0 0	13 12 6
126. Weir, Jenkins, Hepburn, and Lightbody Bursary . . . . .	10 16 2	10 16 2
127. Wight, M'Call, and Christie Bursary . . . . .	12 7 9	12 7 9
Carried to Abstract . . . . .	<u>£10,442 14 6</u>	<u>£9,232 18 11</u>

VI. *ESKBANK FEU-DUTIES—CASUALTY FUND :—*

	Revenue.	Expenditure.
Amount thereof . . . . .	£60 16 2	£18 8 9
Carried to Abstract . . . . .	<u>£60 16 2</u>	<u>£18 8 9</u>

ABSTRACT OF REVENUE AND EXPENDITURE.

	Revenue.			Expenditure.		
I. GENERAL UNIVERSITY FUND . . . . .	£46,107	2	5	£44,193	16	11
II. FEE FUND ACCOUNT AND SALARIES ACCOUNT . . . . .	35,214	10	1	35,214	10	1
III. FUNDS PARTLY OR WHOLLY UNAPPROPRI- ATED TO PARTICULAR PURPOSES . . . . .	4,182	3	7	4,009	19	3
IV. FUNDS APPROPRIATED TO PARTICULAR PURPOSES OTHER THAN BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES . . . . .	11,839	12	10	9,176	5	7
V. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES . . . . .	10,442	14	6	9,232	18	11
VI. ESKBANK FEU-DUTIES—CASUALTY FUND . . . . .	60	16	2	18	8	9
	<hr/> £107,846			<hr/> £101,845		
Deduct amount of sums appearing under two different heads owing to transfers between the Funds under these heads	20,796	9	3	20,796	9	3
NET TOTAL REVENUE AND EXPENDITURE,	<hr/> <hr/> £87,050			<hr/> <hr/> £81,049		

# The University Court.

## ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT, FROM 1ST MAY 1901 to 1ST MAY 1902.

MONDAY, 13<sup>th</sup> May 1901.—The Minutes of last Meeting were submitted and approved.

Reports by the Senatus under Ordinance No. 11, xiii. (1), were submitted.

On the recommendation of the Senatus it was agreed to appoint Dr C. G. Knott to conduct the course of Medical Physics during the current Summer Session.

On the recommendation of the Senatus, the Court approved of an honours half-course in Ancient Greek and Roman History by the Lecturer on Ancient History during the current Summer Session. The half-yearly Report by the Library Committee on the work of cataloguing the Library was submitted.

On the recommendation of the Senatus, the Court agreed that the Summer Course in Botany should be recognised as qualifying for graduation in Arts if supplemented by a vacation course, so that a student's whole course in Botany shall have included at least fifty lectures and twenty-five meetings for practical work, extending over at least seventy-five separate days.

Receipt was reported of Government grant of £100 towards the Lectureship in Forestry, and grant of £130 by the Edinburgh School of Rural Economy towards the Lectureship in Agricultural Chemistry, for the current year.

Intimation was made of the resignation of Dr J. B. Readman as a recognised Extra-Academical Teacher in Practical Chemistry in Edinburgh.

An application by Mr G. H. Gemmel for recognition as an Extra-Academical Teacher in Practical Chemistry in Edinburgh, whose courses of instruction shall qualify for Graduation in Medicine, was granted.

The gift by Lady Denman of a marble bust of Lord Brougham was accepted with thanks to the donor.

A report by the Works Committee on general repairs and jobbing work on the buildings for the past half-year was submitted.

The draft of the Commission proposed to be issued by the Crown

to the new Professor of Engineering, and submitted in terms of Ordinance No. 144 for revision and adjustment by the University Court, was approved.

On the recommendation of the Senatus, the Court approved of the title of Research Fellow being conferred, in terms of Ordinance No. 61, on Mr M. A. Sohraworthy and Mr Emil Westergaard, Ph.D.

As recommended by the Senatus, a grant from the Moray Endowment Fund to Mr J. C. Mitchell, M.B., C.M., D.Sc., towards defraying the expenses incurred in a research carried on by him in the Pasteur Institute was approved.

Mr. W. Gentle was appointed Assistant in the Physical Laboratory, under the Nichol Foundation, for the remainder of the current academical year.

On the recommendation of the Professors of Clinical Medicine, Mr George Lyon, M.B., Ch.B., was appointed a tutor, in room of Dr J. C. Beattie, resigned.

Intimation was made of a grant of £50 by the Highland and Agricultural Society towards the Lectureship in Forestry for the current year.

It was intimated that copies of Reports by Committees of the General Council had been received and distributed among the Members of the Court.

MONDAY, 17th June 1901.—The Minutes of the last Meeting were submitted and approved. It was intimated that the Chancellor of the University had appointed Lord Stormonth Darling to be his Assessor in the University Court in room of Sheriff Mackay, resigned.

Reports of the Senatus under Ordinance No. 11, XXII., and Ordinance No. 12, X., were submitted.

It was intimated that Professor Thomas Hudson Beare, B.Sc., M.Inst.C.E., having presented his Commission as Professor of Engineering, was duly admitted a member of the Senatus Academicus.

The Court reappointed Drs Sarolea and Schlapp as University Lecturers in French and German respectively, for a term of five years as from 30th September next.

Emeritus-Professor Tait was appointed Additional Examiner in connection with a thesis submitted by a candidate for the Degree of D.Sc.

Various grants recommended by the Senatus from the Earl of Moray Endowment for purposes of original research were approved.

The Court agreed to recognise Mr Stuart M'Donald, M.B., C.M., as an extra academical teacher in Edinburgh, whose courses of instruction in Pathology and Practical Pathology shall qualify for graduation in Medicine; and Mr W. Ivison Macadam as an extra academical teacher in Edinburgh, whose courses of instruction in Chemistry (lectures and practical) shall qualify for the first B.Sc. Examination.

There was submitted an Order in Council approving of the Court's

Ordinance No. 2. (Foundation of the Sir William Fraser Chair of Ancient History and Palæography in the University of Edinburgh). The Court resolved at their next meeting to consider as to an appointment to the Chair, and in the meantime to advertise—applications to be lodged with the Secretary of the Court on or before 15th proximo.

The draft of the Commission which the Curators of Patronage propose to issue to the new Professor of Natural Philosophy was adjusted and approved.

Intimation having been made by the Governors of the Heriot Trust that they had adopted the amendment proposed by the University Court on the draft Minute of Agreement between the Trust and the Court relative to Engineering, it was resolved to appoint the Professors of Engineering, Mathematics, Natural Philosophy, and Chemistry, with the present Dean of the Faculty of Science, as members of the Joint Advisory Committee.

The Court appointed Sir William Turner to be a trustee representing the University of Edinburgh on the Carnegie Trust for the Universities of Scotland for a period of four years.

The Court appointed Mr J. Hope Finlay and Professor Crum Brown to be the representatives of the University on the Board of Rural Economy under its new constitution.

The Court's approval was given to the delivery in the University of an elementary course of fifty lectures in Agriculture by the Professor of Agriculture during next winter session in connection with the Edinburgh School of Rural Economy.

Various Reports submitted by the Finance Committee were approved.

It was resolved to postpone the next meeting of the Court from the 15th to the 19th July.

FRIDAY, 19th July 1901.—The Minutes of last Meeting were submitted and approved.

A report by the Committee on the Medical Education of Women was submitted and approved; and an application by the Scottish Association for the Medical Education of Women for renewal of recognition, for next academical year, of the Edinburgh Medical College for Women, Minto House, was granted.

The Senatus reported that Professor J. G. MacGregor, D.Sc., LL.D., F.R.S., having presented his Commission as Professor of Natural Philosophy, was duly inducted a member of the Senatus Academicus.

Grants from the Earl of Moray Endowment for purposes of original research, recommended by the Senatus, were approved.

An application for recognition of the courses of instruction in Chemistry in the Heriot-Watt College for purposes of Graduation in Science was granted. Dr R. J. A. Berry, Edinburgh, was recognised as a teacher of Human Anatomy, whose courses of instruction qualify for purposes of Graduation in Science. Recognition was granted to the Colleges which are affiliated (up to the B.A. and B.Sc. standards)



to the Universities of India, and also to the Engineering Colleges affiliated to the said Universities, for purposes of Graduation in Science under Ordinance xii., Sec. iv. (2).

A letter from the Town Clerk was read, intimating that the Magistrates and Council had nominated Mr William Lang Todd, Advocate, as their Assessor in the University Court, in room of Mr Andrew Mitchell, Advocate, whose term of office had expired.

Dr P. Hume Brown, Edinburgh, was unanimously elected to the Sir William Fraser Chair of Ancient History and Palæography. The draft Commission to the Professor was read and approved. The class fee for the course of Ancient History and Palæography was fixed at £3, 3s.

Mr William Brown, Advocate, Edinburgh, was appointed to the Lectureship in Civil and Criminal Procedure and the Law of Evidence in Scotland.

The recommendations of the respective Professors as to the appointment of University Assistants for next academical year which had been received up to the date of meeting were approved, and such of them as are University Lecturers were continued in their Office as Lecturers for the same period. Dr A. P. Aitken was reappointed University Lecturer on Agricultural Chemistry for the same period.

Various Reports of the Finance, Business and Law, and Works Committees were submitted and approved, and an expenditure of about £700 authorised in connection with the last-named Committee for work to be carried out during the ensuing autumn vacation.

MONDAY, 21st October 1901.—The Minutes of last Meeting were submitted and approved.

The Report by the Finance Committee on Lectureships, Assistants, and Class Expenses for 1901-2 was adjusted and approved.

Principal Sir William Muir was reappointed a Governor of the Fettes Trust. Professor Sir William Turner was reappointed the University's Representative on the General Medical Council. The Senatus reported that Professor Hume Brown having presented his Commission to the Sir William Fraser Chair of Ancient History and Palæography, was duly inducted a member of Senatus.

Reports of the Senatus under Ordinance 11, xxii., and 12, x., were submitted.

The Senatus reported that they had reelected Professor Sir William Turner as an assessor.

On the recommendation of the Senatus, leave of absence was granted to Professor Copeland for the current session, on the ground of ill-health. The Court also approved of the appointment of Mr George Clark, M.A., to carry on the work of the Chair of Astronomy during the absence of the Professor.

The fee for the course of sixty lectures on Ancient History (Scottish) was fixed at £3, 3s. It was agreed that this course be reckoned an honours course for Graduation in History. The fee for the course of

forty lectures on Palæography was fixed at £2, 2s.—the fee for these two courses, if taken in one winter session, to be £4, 4s. The Court further agreed that, for the current academical year, non-graduating students may attend either of these courses on payment of an entrance fee of 5s. in addition to the class fee.

Grants recommended by the Senatus from the Earl of Moray Endowment for purposes of original research were approved.

Dr Alexander Miles, Edinburgh, was recognised as an extra-academical teacher, whose course of instruction in Surgery shall qualify for Graduation in Medicine.

The Representatives of the University on the Joint Board of Examiners for the year from 1st February next were appointed as follows:—Mr Oliver Elton, B.A. (English); Professor Hardie (Classics); Professor Chrystal (Mathematics and Dynamics); George B. Gardiner, M.A., D.Sc. (Modern Languages.)

It was resolved to advertise the vacancy created in the Lectureship in International Private Law by the appointment of Mr Kennedy to the Chair of Law in the University of Aberdeen.

Intimation was made of a bequest of £5000 to the University by the late Miss Eleanor A. Ormerod, LL.D., St Albans.

The Court gratefully accepted a donation of £132, 4s. by Mr Samuel Gilfillan, London, to the fund for the endowment of the Dr Dorothy Gilfillan Memorial Prize.

Various Reports of the Finance Committee were submitted and approved.

MONDAY, 18th Novr. 1901.—The Minutes of last Meeting were submitted and approved.

An extract from the Minutes of the General Council of the University of 25th ult. was read intimating that the Council had unanimously elected Mr Francis Grant Ogilvie, B.Sc., Director of the Museum of Science and Art, Edinburgh, and Mr John Campbell Lorimer, LL.B., Advocate, Edinburgh, to be Assessors in the University Court.

The Works Committee gave in their annual Report on the work that had been done and the expenditure incurred on the buildings during the past financial year, together with an estimate of the probable sum to be expended on the buildings during the current year. They also submitted their half-yearly Report on their expenditure on general repairs and jobbing work.

The existing Members of the Standing Committees—Finance, Works, and Business and Law—were reappointed for the current academical year, with the addition of Mr Lang-Todd to the Finance and Works Committees, of Mr Grant Ogilvie to the Works Committee, and of Mr Campbell Lorimer to the Business and Law Committee. The existing Representatives of the Court on the Library Committee were reappointed for the same period, with the addition of Mr Hew Morrison,

Edinburgh. The Members of the Museum Committee were reappointed for the same period.

The Court, after consultation with the Senatus, and in the exercise of the power conferred on them by Ordinance No. 18 [General No. 9—Regulations for the graduation of women, and for their instruction in the Universities], resolved to make provision within the University for the instruction of women in the subjects taught in the Faculty of Divinity by admitting them to the classes of that Faculty—the resolution to take effect as from the beginning of next academical year.

Mr William M. Gloag, Advocate, Edinburgh, was appointed to the Lectureship in Civil and Criminal Procedure and the Law of Evidence in Scotland, on the understanding that the course of instruction announced for the current winter session will be delivered after the Christmas recess.

Mr David J. Vallance and Dr J. O. Affleck were reappointed as Additional Examiners in Archæology and Art, and in Medicine in its bearings on Public Health, respectively. It was agreed to advertise the vacancies in the Additional Examinerships in Mathematics, &c., French, and Clinical Surgery.

It was agreed to recognise Mr F. M. Caird, M.B., Edinburgh, as an Extra-Academical Teacher in Clinical Surgery, under Ordinance 18, III. (4).

Dr Gregg Wilson, Edinburgh, was recognised as an Extra-Academical Teacher, whose courses of instruction in Zoology shall qualify for graduation in Medicine.

On the recommendation of the Senatus, a grant from the Moray Endowment Fund for purposes of original research was made to Dr F. H. Marshall.

It was intimated that copies of Reports by Committees of the General Council had been received and distributed among Members of the Court.

An abstract of the accounts of the University Athletic Club for the year to 30th September last was submitted.

Various Reports by the Finance, Works, and Business and Law Committees were submitted and approved.

MONDAY, 16th December 1901.—The Minutes of last Meeting were submitted and approved.

The Finance Committee's Report on the University Accounts for the past financial year and estimates for the current year was considered and approved.

The following Additional Examiners were appointed:—Arthur H. Smith, M.A., of the British Museum (Classical Archæology); the Rev. J. C. Lambert, M.A., B.D., and the Rev. George Milligan, M.A., B.D. (Divinity); W. A. P. Tait, B.Sc., C.E. (Engineering); Professor Stockman, M.R.C.V.S. (Veterinary Hygiene); William Chree, LL.B., Advocate (Public Law, Civil Law, and Constitutional Law and History); William Hunter, LL.B., Advocate (Scots Law, Convey-

ancing, and Forensic Medicine) ; Charles W. Cathcart, M.B., C.M. (Clinical Surgery).

Mr J. H. Millar, B.A., LL.B., Advocate, was appointed University Lecturer in International Private Law.

Reports by the Senatus under Ordinance 11, xiii. (1) and xxii., and Ordinance 16, x., were submitted.

Grants recommended by the Senatus from the Earl of Moray Endowment for purposes of Original Research were approved.

The Court, after consultation with the Senatus, approved of the following Report of the Joint Advisory Committee of the University and Heriot Trust on Engineering :—

I. Suggestions for division of the work in Engineering between the University of Edinburgh and the Heriot-Watt College. It is proposed by a rearrangement of the Engineering classes in the University to have a junior and a senior course of lectures, the two courses being carried on concurrently during the winter session, together with laboratory work and a summer course of field work and surveying. It is further proposed to divide the work of each of the above two winter courses into two half courses, and to permit students, say from Heriot-Watt College, to attend one or both of the half courses of each complete course. The fee for a complete course to be as at present—four guineas, with a two-guinea fee for a half course. In the half course of the junior complete course of lectures, given after Christmas, the strength and elasticity of materials would be dealt with exclusively. This would be a suitable course for students of Heriot-Watt College to attend, even if they were not preparing for a degree in Engineering. At Heriot-Watt College, therefore, the subject of the strength of materials would be confined to the first year's course, and be of an elementary nature. Heriot-Watt students of the second year would attend one half course of that year at the University in order to follow the advanced study of the strength and elasticity of materials. It is suggested that all advanced teaching on the theory and design of heat motors should be taken up at Heriot-Watt College, and that this work should be dropped entirely by the University. This work, it is believed, would best be given in the second or third year of the Heriot-Watt course, and would be attended by all University students who were preparing for Mechanical or Electrical Engineering as their profession. Hence, briefly, Heriot-Watt second or third year students would attend at the University for a half term for the subject of strength and elasticity of materials, and University students taking Mechanical or Electrical Engineering would attend the course at Heriot-Watt College on the theory and design of heat motors. In regard to Engineering Drawing a similar arrangement would be expedient. A student desiring to take up Civil Engineering as his definite professional work would attend the drawing classes both of the first and the second year at the University. If, on the other hand, he should wish to take up Mechanical or Electrical Engineering, he might attend one course of Drawing at the

University, and his second (*i.e.* senior) course at the Heriot-Watt College. The Heriot-Watt College would provide advanced instruction in Mechanical and Electrical Engineering Drawing, and the University would provide advanced instruction in Civil Engineering Drawing.

II. Fees.—The Committee recommend that the fees for classes at Heriot-Watt College, which do not compete with University classes, should be the same for students attending either institution, and should be fixed by the Governors of the Heriot Trust.

III. Recognition of Classes. —The Committee recommend the recognition of the following courses at the Heriot-Watt College for purposes of Graduation in Science in Engineering:—1. Mechanical Drawing; 2. Mathematics, the junior and senior classes to count as one complete course, qualifying for first B.Sc. (*i.e.* M.A. standard) in Engineering; 3. Engineering lectures.

On the recommendation of the Senatus it was agreed that the arrangement as to a fee of £2, 2s. for a half course in the Engineering lecture courses should come into force during the present session after Christmas; and that the fee for the Engineering laboratory for this winter session should be £6, 6s.

The fifth half-yearly Report on the cataloguing of the Library was submitted.

The Court approved of the following recommendation of the Senatus:—That the qualifying course in Geology for Arts Graduation shall be the second half of the systematic course after Christmas instead of, as at present, the first part of the laboratory course up to Christmas—the proposed half course to include thirty to thirty-five lectures, ten demonstrations of two hours each, and four or five excursions.

The Report as to Statistics for the academical year 1900-1 to the Secretary for Scotland, under Section 30 of the Universities (Scotland) Act, 1889, was submitted.

The gift by the family of the late Professor Tait of a telescope and books which belonged to him was accepted with thanks to the donors.

A further gift by the Rev. Professor Gwatkin, D.D., Cambridge, of a collection of molluscan radulæ for the microscope was also accepted with thanks to the donor.

Various Reports submitted by the Finance, Works, and Business and Law Committees were approved.

MONDAY, 13th January 1902.—The Minutes of the last Ordinary Meeting and of the Special Meeting of 7th inst. were approved.

The Court, in response to a communication from the Carnegie Trust for the Universities of Scotland, resumed consideration of the directions in which University extension is most required. The Court resolved to communicate with the Senatus to ask their co-operation in forming a committee to appeal to the public for subscriptions to a fund for the further development and extension of the University.

The Report on the State of the Finances for 1900-1 to the



Secretary for Scotland under section 30 of the Universities (Scotland) Act, 1889, was submitted.

It was agreed to advertise an Additional Examinership in Pure and Applied Mathematics, and also an Additional Examinership in Experimental Physics.

The Court appointed Mr Alec Cran, M.A., Edinburgh, as Additional Examiner in French for the remainder of the period for which his predecessor in office (resigned) had been appointed; and reappointed Dr Andrew Davidson as University Lecturer on Diseases of Tropical Climates for five years from 1st May next, and Mr A. W. Borthwick, B.Sc., as University Lecturer on Plant Physiology for the current academical year.

The Court agreed, on the recommendation of the Senatus, that the fees payable for attendance on the laboratory courses in Natural Philosophy should be as follows: £2, 2s. for a three months' course of two hours a day; £4, 4s. for a course extending over the whole academical year for two hours a day; £6, 6s. for a course extending over the whole academical year, for the hours during which the laboratory is daily open. On the recommendation of the Senatus, the Court agreed that the fees payable for attendance on the Public Health Laboratory should conform to those charged in respect of the Chemical Laboratory. It was also agreed that the five shillings entrance fee regulation should be applicable to the Public Health Laboratory. Various Reports submitted by the Finance and Business and Law Committees were approved.

MONDAY, 17th February 1902—The Minutes of last Meeting were submitted and approved. The Court approved of the following recommendations of the Senatus: 1. That the junior classes in Greek be discontinued; 2. That the second hour of the junior class in Latin in the winter session be discontinued (the class still continuing to meet for one hour five times a week during the winter session); and 3, that the junior class in Latin in summer be discontinued. These changes to come into force next academical year. On the recommendation of the Senatus, the Court approved of a full honours course of fifty lectures in Political Science being delivered by Mr D. P. Heatley—the course to qualify for Graduation with Honours in History and in Economic Science, and to be given half during the second half of the winter session, and half during the following summer session. The fee was fixed at £3, 3s. for the whole course, or £2, 2s. for each half course. On the recommendation of the Senatus, the Court approved of the following rearrangement of classes in the Natural Philosophy Department:—

I. Intermediate Honours Class, comprising (1) a course of lectures by Dr Knott on the less advanced portions of the dynamics of particles, rigid solids, &c.; (2) a course by Professor Macgregor on thermodynamics and the more elementary portions of electro statics.

II. Advanced Honours Class, comprising (1) a course of lectures by



Dr Knott on the more advanced parts of dynamics and on elasticity and thermal conduction; (2) a course by Professor Macgregor on electricity; electro statics and magnetism, and electro kinetics, being treated in alternate sessions (in 1902-3 electro kinetics).

III. Junior practical class, including the experimental investigation of simple physical laws, and the performance of laboratory exercises intended to afford experience in the use of a variety of physical instruments and methods, with short courses of lectures by the Professor on the treatment of errors and the discussion of observations (Professor Macgregor and Dr Peddie daily, winter and summer sessions).

IV. Advanced practical class, qualifying as a half course for M.A. with Honours in Mathematics and Natural Philosophy (Professor Macgregor and Dr Peddie daily, winter and summer sessions). Original investigations will be conducted in those departments of Physics in which the laboratory is provided with the requisite apparatus. Students who engage in research, whether independently or in conjunction with the Professor or one of the Lecturers, will be required to acquaint themselves with the literature of the subject in which their investigations lie, to prepare critical reports on those portions of it with which their work is more immediately concerned, and to prepare full reports on the methods and results of their own investigations.

The annual Report of the Library Committee under Ordinance No. 64, sect. xvi., forwarded by the Senatus, was submitted.

Dr R. S. MacDougall, Edinburgh, was recognised as an extra-academical teacher, whose courses of instruction in Botany qualify for graduation in Medicine and Science (first B.Sc.) under Ordinance 18, III. (3) and (4).

On the recommendation of the Senatus, it was agreed that the fee for the Engineering Laboratory already sanctioned by the Court for the current winter session (£6, 6s.) shall apply to future winter sessions until new laboratory arrangements are made.

Various grants recommended by the Senatus from the Earl of Moray Endowment for Original Research were approved.

Mr Dundas and Dr Bell were reappointed the Court's Representatives on the University Field Committee for the year from 15th proximo.

Mr T. H. Collinson, Mus. Bac., Edinburgh, was appointed Additional Examiner for the Bucher Scholarship.

Intimation was made of a bequest of £5000 by the late Miss Martha Brown, of Lanfine, to the University Endowment Association for the foundation and endowment of "The Lanfine Bursaries," of not less than £25, and not exceeding £40 each per annum, to be tenable for not more than four years, and to be held by students who shall have passed a competitive examination in classes connected with the Faculty of Arts under such conditions as the Principal and Senatus of the University may from time to time prescribe. Intimation was made of a further gift by Professor Gwatkin, D.D., Cam-

bridge, of molluscan radulæ. The gift was accepted with thanks to the donor.

MONDAY, 17th March 1902.—The Minutes of last Meeting were submitted and approved.

The Finance Committee submitted a statement of the expenses of the Joint Board of Examiners of the Scottish Universities, and of the remuneration of the University's Representatives, for the year ended 31st January last.

The following Additional Examiners were appointed: John Forbes Cameron, M.A., B.Sc., Cambridge (Pure and Applied Mathematics); Dawson Turner, B.A., M.D., Edinburgh (Experimental Physics); Mr J. Hossell Henderson, Advocate, Edinburgh (History); Principal W. Williams, Edinburgh (Veterinary Hygiene).

Reports by the Senatus under Ordinance II, xiii. (1) were submitted. On the recommendation of the Senatus, the Court approved of an Honours Class in Wave Theory (Light and Sound), to be conducted by Dr Peddie during the summer session, and to qualify as a half-course for M.A. with Honours in Mathematics and Natural Philosophy, and as a half-course for the Final B.Sc. Examination. The work of the class will deal with the mathematical treatment of the undulatory theory both from the kinematical and the dynamical sides, as well as with the mathematical treatment of sound; and as the whole of those subjects cannot be fully discussed in one session the work will be arranged on a two years' plan. The fee was fixed at £2, 2s. for each course. Grants recommended by the Senatus from the Earl of Moray Endowment for purposes of Original Research were approved.

Mr William Wood, M.B., C.M., Edinburgh, was recognised as an Extra Academical Teacher, whose courses of instruction in *Materia Medica* (Systematic) shall qualify for Graduation in Medicine under Ordinance 16.

On the recommendation of the Library Committee, the Court granted an application by the Rev. Henry Paton, M.A., Inspector for H.M. Commissioners on Historical Manuscripts in Scotland, for permission to draw up a report on the historical papers in the Laing collection—the report to be prepared and printed at the expense of the Commission.

It was intimated that a grant of £100 towards the expenses of the Elementary Course in Agriculture, and of £130 towards the Lectureship in Agricultural Chemistry had been received from the Edinburgh and East of Scotland College of Agriculture. Various Reports submitted by the Finance and Works Committees were approved.

## Miscellaneous.



### I. SUBJECTS OF EXAMINATION FOR STUDENTS OF DIVINITY AND CANDIDATES FOR LICENSE BY PRESBYTERY OF EDINBURGH.

Examination mainly in writing. An average of not less than 50 per cent. over all the subjects is necessary. Examinations held in the Examination Hall of the University.

1. *For Students entering the Divinity Hall.*—(1) Biblical Knowledge.—Genesis to 2 Samuel, and the Four Gospels; (2) The Shorter Catechism.

2. *For Students entering on their Second Year.*—(1) Latin.—Augustine—Enchiridion; (2) Greek.—The Epistle to the Colossians as in Lightfoot; (3) Hebrew.—Davidson's Grammar, 1-31; Genesis, i.-ix.; (4) Divinity.—Confession of Faith, 1-15; Flint's Theism; Row's Manual of Christian Evidences; (5) Biblical Knowledge.—1 Kings to Nehemiah, and Acts of the Apostles; (6) Church History.—History of the Church to 325 A.D.

3. *For Students entering on their Third Year.*—(1) Latin.—Anselm—Cur Deus Homo; (2) Greek.—St John's Gospel to be read critically, with discussions as to date and authorship; (3) Hebrew.—Davidson's Grammar, 32-49; Psalms i.-xv.; (4) Divinity.—Confession of Faith, 16-33; The Trinity; The Person of Christ; (5) Biblical Knowledge.—The Psalms and Isaiah; (6) Church History.—The Reformation Period, with special reference to Scotland.

4. *For Candidates for License.*—Scriptures of the Old and New Testaments, and History and Doctrine of the recognised Standards of the Church of Scotland.

GEORGE T. JAMIESON, *Cl. Presb. Edin.*

II. THE EDINBURGH UNIVERSITY UNION.—*President*—H. H. Bullmore. *Hon. Secretary*—A. A. Hall, M.A. *Assistant Secretary*—D. D. Paton, M.A. *Treasurer*—J. Walker, C.A., 25 Frederick Street. The *Committee of Management* consists of representatives from the *Senatus*, the *General Council*, and *Matriculated Students*.

The Union is open to all Students and Graduates of the University, and its purpose is "the provision and maintenance of means of social and academic intercourse for its members." The Building, which was erected and equipped at a cost of nearly £16,000, includes a large hall (in which Lectures are given, and debates are held during the Winter Session), luncheon, smoking, reading-rooms, and billiard-room,

is situated near both the old and the new buildings. The reading-room is amply supplied with newspapers, and with the weekly, monthly, and quarterly periodicals, both British and American; the billiard-room is furnished with three billiard tables, and the library contains University and Class Text-Books. Among Books of Reference is the latest edition of the *Encyclopædia Britannica*.

*Terms of Membership.*—By payment of an entrance fee of 5s. and an Annual Subscription of 10s. 6d. if a Matriculated Student, or £1, 1s. if a Graduate, University Assistant, or Lecturer.

*Affiliated Societies.*—E. U. Union English Public Schools Club; University of Edinburgh Photographic Society.

Many other University Societies have been granted certain privileges for the transaction of Business in the Union.

Full particulars as to affiliation, &c., on application to the Secretary at the Union. A series of Debates and Lectures are held during the Winter Session, including inter-University Debates with Cambridge Union Society and Glasgow University Union, St Andrews and Aberdeen.

### III. STATISTICS OF THE RECTORIAL ELECTIONS, 1859-1899.

- 1859.—*Gladstone*, 642.—*Neaves*, 527. Matriculated students, 1302.  
 1862.—*Gladstone (unopposed)*. Matriculated students, 1331.  
 1865.—*Carlyle*, 657.—*Disraeli*, 310. Matriculated students, 1288.  
 1868.—*Moncreiff*, 607.—*Ruskin*, 425. Matriculated students, 1398.  
 1871.—*Maxwell*, 594.—*R. Palmer*, 502. Matriculated students, 1533.  
 1874.—*Derby*, 770.—*Playfair*, 583. Matriculated students, 1767.  
 1877.—*Hartington*, 932.—*Cross*, 684. Matriculated students, 2102.  
 1880.—*Rosebery*, 1024.—*Christison*, 985. Matriculated students, 2496.  
 1883.—*Northcote*—*Blackie*—*Trevelyan*. Matriculated students, 2660.  
 1886.—*Iddesleigh*, 1094.—*Playfair*, 747. Matriculated students, 2680.  
 1887.—*Lothian (unopposed)*. Matriculated students, 2493.  
 1890.—*Goschen*, 1378.—*Russell*, 805. Matriculated students, 3038.  
 1893.—*Robertson*, 1145.—*Reay*, 728. Matriculated students, 2649.  
 1896.—*Balfour*, 990.—*Haldane*, 771. Matriculated students, 2414.  
 1899.—*Dufferin*, 943.—*Asquith*, 686. Matriculated students, 2416.

IV. ROYAL MEDICAL SOCIETY, EDINBURGH, 7 Melbourne Place. FOUNDED 1737. ROYAL CHARTER GRANTED 1778. *Presidents*—A. Murray Wood, M.B., Ch.B.; W. E. Carnegie Dickson, M.B., Ch.B.; J. G. M'Bride, M.B., Ch.B.; G. S. Carmichael, M.B., Ch.B. *Secretaries*—A. B. Ross, M.A.; C. H. Bösenberg, B.A. *Treasurer*—J. R. Young. *Sub-Librarian*—A. P. Ormiston.

The Society meets in its hall every Friday evening during the Winter at 9 o'clock. At these meetings dissertations on medical subjects are read and debated, and communications by members on subjects of interest discussed. The Society possesses a very fine library,

containing about 30,000 volumes, which is constantly being added to, the catalogue of which was brought up to date in 1896. There are comfortable writing and reading-rooms with all the medical journals and periodicals, books of reference and text-books specially useful to students reading for examinations. The museum contains a complete collection of *Materia Medica* specimens, microscopic sections, pathological preparations, herbarium, and a surgical model, on which bandaging, setting of fractures, &c., may be practised.

V. INTERNATIONAL - ACADEMIC COMMITTEES. A Committee appointed by the Senatus, consisting of Professor Kirkpatrick (*Convener*), The Principal, Professors Chrystal, Eggeling, Sir L. J. Grant, Bart. (Secretary of Senatus), Dr Sarolea and Dr Schlapp, and also the International-Academic Committee of the Students' Representative Council, will be happy to give information and advice to Foreigners desirous of studying in the University of Edinburgh, and to Edinburgh University Students intending to study in foreign universities. Inquiries may be addressed to either of these Committees.

VI. FRANCO-SCOTTISH SOCIETY. Inter-Academic Society for advising and assisting French students in Scotland and Scottish students in France. *Hon. Secretary*—A. A. Gordon, Esq., C.A., 128A George Street, Edinburgh.

VII. ASSOCIATION FOR THE BETTER ENDOWMENT OF THE UNIVERSITY OF EDINBURGH. *President*—The Right Hon. Arthur James Balfour, D.C.L., LL.D., M.P., Chancellor of the University. *Vice-Presidents*—The Right Hon. The Earl of Wemyss, LL.D.; The Right Hon. The Earl of Stair, K.T.; The Right Hon. The Earl of Rosebery, K.G., K.T., LL.D.; Principal Sir William Muir, K.C.S.I., D.C.L., LL.D.

*Ordinary Members of Committee*—The Right Hon. The Lord Justice-General, LL.D.; R. Fitzroy Bell, Esq., Advocate; A. W. Black, Esq.; John Boyd, Esq.; Sir Thomas J. Boyd; Professor Crum Brown, M.D.; Professor Butcher, LL.D.; Professor Chiene, F.R.C.S.E.; D. Christison, Esq., M.D.; Archibald Constable, Esq.; Henry Cook, Esq., W.S.; Charles Cook, Esq., W.S.; Donald Crawford, Esq., Advocate; The Hon. Lord Stormonth-Darling, LL.D.; The Rev. Archibald Fleming; John Harrison, Esq.; James Hope, Esq., W.S.; A. Taylor Innes, Esq., Advocate; The Right Hon. Lord Kinnear, LL.D.; A. J. G. Mackay, Esq., LL.D., Advocate; Sir Andrew Mure; Charles Robertson, Esq., B.C.S.; Professor Seth Pringle Pattison, LL.D.; Robert Simson, Esq., B.C.S.; George Smith, Esq., LL.D., C.I.E. *Hon. Secretary*—Sir Alexander Christison, Bart., M.D. *Secretary*—Robert G. Scott, W.S., 6 Hill Street, Edinburgh.

*Local Honorary Secretaries*—A. Mercer Adam, Esq., M.D., Boston,

Lincolnshire; Sir Dyce Duckworth, M.D., 11 Grafton Street, Piccadilly, London; A. F. Hutchison, Esq., Stirling.

*Terms of Membership*—Life Subscription, One Guinea; no annual subscription. All friends of the University are invited to become members.

### VIII. UNIVERSITY SOCIETIES AND CLUBS.

i.—THE AGRICULTURAL SOCIETY. ESTABLISHED 1858. *Hon. President*—Professor Crum Brown. *Presidents*—D. S. Rabagliati, J. Anderson. *Secretary*—G. C. Muirhead. *Treasurer*—J. Stirton.

The Society meets weekly during the Winter Session, the day and hour being arranged at the first meeting in each session.

ii.—ASSOCIATED SOCIETIES OF THE UNIVERSITY. This Association was instituted in 1833, and is a Union of Literary and Debating Societies. It is composed at the present date of five societies:—The Dialectic, Scots Law, Diagnostic, Philomathic, and Celtic Societies. The following is the list of the Office-Bearers of the Association, and of the respective component societies:—

*Honorary President*—The Right Honourable Viscount Lord Wolseley. *Hon. Vice-Presidents*—The Senatus Academicus of the University (*ex-officiis*). *Honorary Secretary*—William L. H. Paterson, S.S.C., 33 Castle Street.

(1.) DIALECTIC SOCIETY OF EDINBURGH. INSTITUTED IN 1787. *Presidents*—D. L. Cattanach, H. M. Miller, W. A. Fleming, D. H. Low, and H. G. Sutherland. *Hon. Secretary*—A. D. Anderson. *Hon. Treasurer*—Harold Mowat.

The Society meets in the Associated Societies' Hall every Thursday evening at 8 o'clock, for the prosecution of Literary and Philosophical Composition, Criticism, and Debate.

(2.) SCOTS LAW SOCIETY. INSTITUTED IN 1815. *Presidents*—Niven M. M'Crie, George A. Porter, Wm. G. Skinner, M.A. *Treasurer*—T. E. Gilbert Taylor, Solicitor. *Secretary*—John Walker, M.A., Solicitor, 32 Queen Street. *Assistant-Secretary*—Ernest T. Skae.

This Society meets every Monday evening during the Winter Session, at 8.30 o'clock, in the Associated Societies' Hall, University, for the purpose of debating Legal and Speculative Questions and reading Essays.

(3.) THE DIAGNOSTIC SOCIETY. INSTITUTED IN 1816.—*Presidents*—J. M'Murtrie, R. S. Candlish, J. R. Cuthbert, O. H. Ewing. *Hon. Secretary*—J. A. Cameron. *Hon. Treasurer*—D. R. Matheson.

This Society meets every Tuesday evening, at 8.30 o'clock, beginning on Tuesday, 28th October 1902, for the purpose of holding debates and reading Essays.



(4.) PHILOMATHIC SOCIETY. INSTITUTED IN 1858. *Presidents*—A. W. M'Clymont, M.A. ; W. A. Jolly, W. B. Brander. *Secretary*—W. J. B. Selkirk, M.A., 19 Mayfield Gardens. *Treasurer*—C. L. Riach. *Assistant-Secretary*—J. H. Robertson.

This Society meets in the Societies' Hall every Friday evening during the Winter Session, at 8 P.M., for the purposes of debate and essay-reading; and is open to all gentlemen who are, or have been, Matriculated Students of the University of Edinburgh.

(5.) CELTIC SOCIETY. INSTITUTED 1848. (*Office-Bearers not communicated.*)

This Society meets every Saturday evening during the Winter Session, at 7 o'clock P.M., in the Associated Societies' Hall. Students from Northern Counties cordially invited.

iii.—ATHLETIC CLUB. *President*—A. J. Rowan. *Vice-President*—A. N. Fell. *Hon. Secretary*—R. G. Gordon, The Union. *Hon. Treasurer*—C. E. W. Macpherson, C.A. *Sectional Secretaries*—FOOTBALL (Rugby)—E. D. Simson; DO. (Association)—T. J. C. Gifford. CRICKET—H. N. Fletcher. BOAT CLUB—D. C. L. Fitzwilliams. LAWN TENNIS—M. Sinclair. GOLF—A. Cormack. HARE AND HOUNDS—J. Arthur.

Open to all Members and Graduates of the University, and to Members of the Extra-Mural School.

All communications should be addressed to the Hon. Secretary, E.U. Athletic Club, University Union.

iv.—CAITHNESS STUDENTS' ASSOCIATION. INSTITUTED IN 1856. *Hon. President*—His Grace the Duke of Portland. *Hon. Vice-Presidents*—Sir J. G. Tollemache Sinclair, Bart. ; R. C. Harmsworth, Esq., M.P. ; W. Nicolson, Esq., Wick. *President*—D. H. Wares. *Secretary*—L. G. Grant. *Treasurer*—Miss K. J. S. Mackenzie.

This Association meets fortnightly, in the Education Class Room, on Saturdays, at 7 P.M., during the Winter Session, for the purpose of debating, for reading Essays, and for the advancement of education in Caithness.

v.—CHEMICAL SOCIETY. INSTITUTED 1874. *President*—Professor Crum Brown. *Vice-Presidents*—Dr Taylor, J. P. Longstaff, B.Sc. *Librarian*—J. Kerr, B.Sc. *Secretary*—A. W. Madsen. *Treasurer*—W. A. K. Christie.

This Society holds fortnightly meetings, at 8 P.M., in the University Union, during the Winter Session, for the reading and discussion of papers on Chemistry and allied Sciences. Visitors welcome.

Excursions to Chemical Works, &c., during the Sessions.

vi.—CLASSICAL SOCIETY. FOUNDED 1898. *Honorary Presidents*—Professor Butcher, Professor Hardie. (*Office-Bearers not communicated.*)

The object of the Society is to further Classical study, and to promote social intercourse amongst Classical students in the University of Edinburgh. The Society meets every three weeks on Monday evenings at 8 o'clock, for essays, debates, and discussions in the Sellar and Goodhart Library. Membership is open to past and present Classical students of the University of Edinburgh.

vii. — DUMFRIESSHIRE AND GALLOWAY LITERARY SOCIETY. INSTITUTED 1847. *Presidents*—C. L. Philip (senior), Joseph Thomson, William Hyslop. *Joint-Secretaries*—J. M. Langlands, 25 Warrender Park Terrace; C. L. Hunter, 15 Shandon Place. *Treasurer*—James M'Camon.

This Society is open to all Students who are connected with Dumfriesshire or Galloway, or to such others as may be admitted by unanimous consent at an ordinary meeting of the Society. The Society meets in the Public Law Class-Room of the University every Saturday during the Winter Session, at 7 P.M. Annual subscription, 2s. 6d.

viii. — FRENCH SOCIETY. *Honorary President*—Dr Sarolea. *Hon. Vice-Presidents*—Professors Butcher, Chrystal, Kirkpatrick, Laurie, Saintsbury; Dr Schlapp. *President*—B. H. Watt. *Secretary*—Miss M. E. M. Clark, 11 Blacket Place.

The object of the Society is the furtherance of the study of French, and of social intercourse among the students of French in Edinburgh University. The business consists of papers, debates, &c. The Society meets fortnightly. Annual subscription, 2s. 6d.

ix. — GERMAN SOCIETY. INSTITUTED 1899. *Hon. President*—Dr Otto Schlapp. *President*—H. M. Miller. *Vice-President and Treasurer*—A. F. Whyte. *Secretary*—Miss Maclean, 10 Hillside Street.

The Society has for its object the furthering of the study of German and of social intercourse amongst Students of German in the University of Edinburgh. The public business of the Society consists of debates, papers and dramatic readings. The Society meets on alternate Wednesdays at 5 P.M. Members must be present or past students at the University. Annual subscription, 2s. 6d.

x. — HISTORICAL SOCIETY. INSTITUTED 1897. *Hon. Presidents*—Prof. Kirkpatrick, Prof. Lodge. *Presidents*—C. L. Philip (senior), G. M. Harper, P. A. M'Brayne. *Secretary*—A. F. Jack, University Union. *Assistant-Secretary*—H. V. Rabagliati. *Treasurer*—Miss M. C. Aitken.

This Society meets in the History Library every Wednesday, at 7.30 P.M., commencing second last Wednesday in October, and ending first Wednesday in March, for the purpose of historical study and research, and of debating problems chiefly in modern and mediæval

history. Members of the Society are entitled to the use of the History Library. Subscription, 3s.

xi. MISSIONARY ASSOCIATION. INSTITUTED 1825. — *Honorary President*—Principal Sir W. Muir, K.C.S.I., D.C.L. *Hon. Vice-President*—The Lord Rector. *Honorary Treasurer*—W. Melvill Sym, Esq., C.A., 49 Castle Street. *President*—M. F. Simpson, M.A. *Vice-President*—J. B. Jamieson, M.A. *Secretary*—J. M'Murtrie, M.A., 13 Inverleith Place. *Assistant-Secretary*—H. D. F. Dunnett, M.A. *Assistant-Treasurer*—J. A. Fleming, M.A. *Librarian*—W. P. Gillieson, M.A.

The Association meets in the Theological Library on alternate Mondays, at 3 P.M.

xii.—MUSICAL SOCIETY. FOUNDED 1866-67.—*Patron*—The Right Honourable the Earl of Rosebery, K.G., K.T. *President*—Professor Niecks. *Vice-Presidents*—Principal Sir Wm. Muir, K.C.S.I.; Professors Annandale, Crum Brown, Butcher, Flint, Kirkpatrick, Lodge, Pringle Pattison, Schäfer, Sir Wm. Turner, Wyllie; Emeritus-Professor Sir Herbert S. Oakeley, D. Hepburn, M.D., and R. Milne Murray, M.B. *Hon. or Corresponding Vice-Presidents*—The President of Aberdeen University Musical Society; Professor Villiers Stanford, Cambridge; and Professor Prout, Dublin. *Hon. Secretaries*—George A. Gordon and R. W. Craig, University Union. *Hon. Treasurer*—C. G. Knott, D.Sc. *Conductor*—James A. Moonie. The Chorus (male and female) meets for practice weekly in the Music Class-Room, Park Place, on Tuesdays, at 5.10 P.M. Subscription, 2s. 6d.

xiii.—EDINBURGH UNIVERSITY ORCADIAN ASSOCIATION. *Hon. President*—John Gunn, M.A., D.Sc. *President*—John Tait, B.Sc. *Vice-President*—Wm. Flett. *Secretary*—G. W. Scarth, 3 Montgomery Street, Edinburgh. *Treasurer*—H. Watson, 97 St Stephen Street, Edinburgh.

The Association meets in the Celtic Class-Room during the Winter Session on Saturday evenings, commencing at 7 P.M.

xiv.—PHOTOGRAPHIC SOCIETY. Fully equipped dark room in the Union. Exhibition held in January. Excursions in the summer term. For full information apply to Hon. Secretary, The Union. *President*—Dr Drinkwater. *Vice-President*—E. M. Horsburgh. *Hon. Treasurer and Secretary*—Dr Lauder Thomson. *Assistant-Secretary*—W. P. Archibald.

xv. — NO. 4 (UNIVERSITY) COMPANY, THE QUEEN'S RIFLE VOLUNTEER BRIGADE, THE ROYAL SCOTS. FORMED 1850. *Captain*—J. A. Hope, M.A., LL.B., W.S., 119 Princes Street. *Lieutenants*—J. B. Jamieson, M.B., C.M., F.R.C.P.E., 43 George Square; R. G. W. Adams, Australasian Club; A. E. L. Jones, 9 Lennox Street.

The Company is the oldest Volunteer corps in the University, and the first formed company in Scotland. It is open to past and present members of the University. It numbers 170, possesses a Maxim gun, and entrenching tools, and has numerous shooting prizes. Company training is spread over winter and summer to suit all. Numerous field days and camps are held, and instruction given in engineering and signalling. University men wishing to join can get information from any of the officers. Recruits taken at any time.

xvi.—RIFLE COMPANY SHOOTING CLUB. INSTITUTED 1873.—*Honorary Presidents*—Lieut.-Colonel Sir Wm. Turner and Professor Balfour. *President*—Major Hope. *Vice-Presidents*—Lieutenants Jamieson and Jones. *Secretary*—Corporal J. W. Cathles, Strathmore, Mortonhall Road. *Treasurer*.—Corporal L. M. Cathles. This Club is open to members of No. 4 (University) Company, Q.R.V.B., R.S. The Club superintends the shooting of the Company. Weekly competitions are held at Hunters' Bog, and an Annual Prize Competition in July, at which numerous prizes are given. A silver teaspoon is given for each weekly competition.

xvii.—SCOTTISH INTER-UNIVERSITY RIFLE MATCH. INSTITUTED 1880.—*Edinburgh Committee*—Major J. A. Hope; Lieutenant N. C. Rutherford, Corporal J. W. Cathles, Q.R.V.B., R.S.; Sergeant Khan, E.C.V.A. *Hon. Secretary*—Lieutenant N. C. Rutherford, Q.R.V.B., R.S., University Union. The Inter-University Challenge Trophy is shot for annually by the four Scottish Universities in rotation, at Edinburgh, Glasgow, Montrose, and Aberdeen. Each University sends a team of ten men, of whom at least five must be matriculated students at the date of the match, and the remainder must have attended a class in the University for at least one Session. Students willing to shoot are requested to communicate with the Secretary.

xviii.—THEOLOGICAL SOCIETY. INSTITUTED 1776.—*Honorary Presidents*—Rev. Professor Flint, LL.D., D.D.; Rev. Professor Taylor, D.D.; Rev. Professor Kennedy, D.D.; Rev. Professor Patrick, D.D. *Senior President*—G. V. Dunnett, M.A. *Presidents*—J. Bryce Jamieson, M.A.; A. Mackay, M.A.; M. F. Simpson, M.A. *Secretary*—Chas. Robertson, M.A. *Treasurer*—H. D. F. Dunnett, M.A.

Membership is open to present and to past male Students of Theology at this University. The Society meets in the Theological Library on Friday evenings during the Winter Session, at 8 P.M., for essays, debates, and discussions on subjects of Theological and Ecclesiastical interest.

xix.—TOTAL ABSTINENCE SOCIETY. INSTITUTED 1853.—*Hon. President*—J. Shaw M'Laren, M.B. *Hon. Vice-Presidents*—Professor A. R. Simpson; Emeritus-Prof. Charteris; R. L. Orr; C. J. Guthrie;

Dr T. Brown Darling; Dr A. G. Miller. *Hon. Treasurer*—H. S. Hope Gill, C.A. *Auditor*—R. Stirling Craig, Solicitor. *President*—Alex. Jack. *Vice-President*—Miss N. Lenwood. *Secretary*—Miss I. B. Cunningham, Muir Hall, 12 George Square. *Treasurer*—Miss A. Robinson.

Membership implies total abstinence from alcohol as a beverage, for one academic year. Annual subscription, 1s.

xx.—UNIVERSITY BATTERY, 1ST E.C.R.G. ARTILLERY VOLUNTEERS.—*Captain*—A. T. Masterman. *Lieutenants*—F. P. Dods and W. Cowan. *Battery Quartermaster-Sergeant*—G. S. Blandy. *Sergeants*—J. Arthur, R. G. Gordon, S. Khan, H. MacRae. *Hon. Secretary and Treasurer*—Corp. K. A. Moody-Stuart, University Union.

The Battery drills in the Waverley Market during the Session on Tuesdays and Fridays at 5 P.M. Two opportunities are afforded of going to camp—in May and July. During the summer there is carbine shooting for which several medals and prizes are offered. Men have to join for three years at least, and all equipment is provided free.

xxi.—EDINBURGH UNIVERSITY CHRISTIAN UNION.—The object of the Union is to form a bond of union between students whose principles and aims in life are Christian, and to promote the spread of Christ's Kingdom in the University.

It welcomes as members all students at the University or School of Medicine who acknowledge Jesus Christ as God the Son, and only Saviour of the world.

Although the E.U.C.U. seeks to deepen and render more visible the power and love of Christ in its members, by such means as short Daily Prayer Meetings and Bible Circles (groups of men meeting together week by week for the practical study of God's word); and to promote Christian effort by its members, by providing such spheres of activity as services in the Wards of the Infirmary and Sick Children's Hospital, in the Poorhouse and in Lodging-Houses, yet taking part in such work is not a condition of membership.

The Union is affiliated to the British College Christian Union (comprising Christian Unions in 116 different student centres in Great Britain and Ireland), and, through it, forms part of the World's Student Christian Federation, which links together the student movements of South Africa, Australasia, India and Ceylon, China, Japan, Germany, France (with the Netherlands and Switzerland), the Intercollegiate movement of the United States, and other National and International Student Christian movements.

The Union comprises three sections (for Arts, for Theological, and for Medical Students), the work of each being controlled by a Sectional Committee with Convener, Secretary, and other office-bearers.

During the winter 1902-1903 services addressed by well-known speakers from different parts of the country will be held in a hall near the University.

The office-bearers are as follows:—*Honorary President*—Principal Sir William Muir. *Convener of Arts Section*—J. G. Nicholson. *Secretary of Arts Section*—Ian J. A. Macdonald. *Convener of Medical Section*—E. Muir. *Secretaries*—J. Kirk, E. Dyer.

Offices of the Union, 19 Marshall Street.

xxii.—PHILOSOPHICAL SOCIETY. INSTITUTED 1871.—This Society meets in the Honours Class Reading Room on Monday evenings during the Winter Session, at 8.30 P.M., for Philosophical Criticism and Investigation. *Hon. Secretary*—Thomas M. Forsyth, 4 Bonnington Terrace.

xxiii.—STUDENTS' VOLUNTEER MISSIONARY UNION (Edinburgh Branch).—The ranks of this Association are open to all Students who look forward to engaging in Foreign Missionary Work and who sign the declaration of the Union—"It is my purpose, if God permit, to become a foreign Missionary." Its objects are to band such students together and to bring the claims of the Foreign Mission Field before other Christian Students. It seeks to promote systematic study of Missions and arranges for a monthly Missionary Meeting during the Winter Session. A fortnightly meeting of Members is also held.

*President*—J. Robinson, B.Sc. *Secretary*—J. B. Clark, c/o Melvin, 57 Marchmont Road. *Assistant-Secretary*—A. Wight. *Treasurer*—J. J. Thomson.

xxiv.—UNITED FREE CHURCH STUDENTS' SOCIETY. FORMED 1900. (*Office-Bearers not communicated.*)

The Society is open to all United Free Church Students, and to all who would have been eligible for membership in the U.P. and Free Church Societies, and meets in the Elocution Class-Room, New College, Mound, every Saturday evening during the Winter Session, at 7 o'clock. Subscription for Membership, 2s.

xxv.—WOMEN'S CHRISTIAN UNION. Office, 2 North Block, Waverley Buildings.—*Honorary President*—Miss Louisa Stevenson. *Hon. Vice-Presidents*—Mrs Baldwin Brown, Mrs Calderwood, Mrs Charteris, Mrs John Kelman, Mrs Kennedy, Miss Lorimer, Miss Nairn, M.A., Mrs Sandeman, Miss F. Simpson, M.A., Mrs Whyte. *President*—Miss E. Macphail. *Vice-Presidents*—Miss M. G. Edgar. Miss M'Ewan. *General Secretary*—Miss M. Strathairn, 5 Leamington Terrace. *Treasurer*—Miss M. Adamson.

The aim of this Union is to unite women students in Christian work and fellowship. Meetings are held for Bible and Missionary study; Mission work is engaged in, and assistance given in Ward services. Membership is open to all matriculated women students of Edinburgh University, past and present, who desire to promote these aims.

xxvi.—WOMEN'S DEBATING SOCIETY. INSTITUTED 1893.—*Presi-*



*dent*—Louisa R. Boyd, M.A. *Vice-Presidents*—Jeanie C. Rait, Agnes Robertson. *Secretary*—Grace Pears, 19 Mentone Terrace. *Treasurer*—Maybel Ireland.

The Society meets every alternate Friday during the Winter Session, at 5 P.M., within the University, for Debate and Literary Criticism.

## RESIDENCES AND BOARD FOR STUDENTS.

*(Not under the control of the University Authorities.)*

### I. FOR MEN STUDENTS.

(1.)—UNIVERSITY HALL, ST GILES' HOUSE (22 St Giles' Street); RAMSAY LODGE (Ramsay Garden); and BLACKIE HOUSE (8 North Bank Street). University Hall is designed as a social residence for Students, Graduates, and others connected with the University. The above houses are all within five minutes' walk of the University; they include common rooms, private studies, and bedrooms. The rents range from 8s. to 18s. per week, payable by term or monthly in advance, and the board averages about 14s. per week, payable at the end of each fortnight.

The external affairs of the Hall are in the hands of The Town and Gown Association, Limited.

The internal arrangements of each house are managed by a committee of the residents elected monthly. When desired, young Students can be placed under the care of one of the resident tutors, the Rev. H. H. Flower, Pittodrie House, Ramsay Garden, and others. In some of the chambers and larger houses occupied by teachers, graduates, &c., Students can be received as pupils and boarders.

Application for rooms should be made at the different houses. Application for information with regard to general questions on University Hall should be made to Messrs Whitson & Methuen, C.A., 21 Rutland Street, Edinburgh.

(2.)—RAMSAY GARDEN. This house is conducted as a Hostel for Students, &c., the number at present being limited to six. Special supervision can be given and tuition arranged for, if desired. Application for particulars, terms, references, &c., to be made to the House Tutor, the Rev. A. T. Bell.

### II. FOR WOMEN STUDENTS.

(1.)—MASSON HALL, 31 GEORGE SQUARE. INSTITUTED 1897.—*Hon. President*—Principal Sir William Muir, K.C.S.I. *President*—Miss Houldsworth. *Hon. Treasurer*—Miss S. E. S. Mair. *Warden*—Miss F. H. Simson, M.A. *Hon. Secretary*—Miss Louisa Stevenson, 13 Randolph Crescent, Edinburgh.

This Hall is situated in convenient proximity to the University and Medical Schools.

Non-resident students may become members of the Hall by a small annual subscription, and have access to the Library and to the Dining-Hall where meals are provided at moderate rates.

Terms for Board and Residence may be had on application to the Warden, or to the Hon. Secretary. A room for Students' Meetings can be provided by arrangement.

(2.)—THE MUIR HALL FOR STUDENTS OF MEDICINE, 12 GEORGE SQUARE.—*President*—Sir William Muir, K.C.S.I. *Vice-Presidents*—Mrs Findlay of Aberlour; Rt. Hon. Lord Pearson. *Hon. Treasurer*—Mrs J. P. Watson. *Hon. Sec.*—Miss Inglis, M.B., C.M. *Lady Superintendent*—Miss Robertson.

The Hall is managed by a Lady Superintendent, is under the direction of a Committee of Management, and contains two Common Rooms, besides Private Rooms for Residents, and Bath Rooms on each Floor. The Private Rooms are arranged as Study Bedrooms, and the charge varies according to the size and outlook, from 16s. 6d. to 25s. a week, including Board. Students who remain for examination after the Session has ended are charged 1s. 6d. a week extra. Half Rents during the Christmas and Spring Vacations, to Residents who wish to retain their Rooms. The Residents have the use of the Square Gardens, where there are Tennis Courts. For particulars apply to the Lady Superintendent.

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